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Chairman of the Board of Honor, Member of the Institute Royal Academy of Sciences, and the great father of the learned, distinguished, and noble American

ADDITIONAL NOTES.

IN FOUR VOLUMES.

MAMMALIA - BIRDS.

*J. G. Henderson, 2, Old Bailey, Ludgate Hill*

AND SOLD BY ALL BOOKSELLERS

1531.



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\* This curious species is not noticed by Cuvier, no doubt from its very recent discovery. It has been figured in the Transactions of the American Philosophical Society, and described very fully by Dr. Harlow in the same work. From several peculiarities in structure, this animal approaches very closely to the ourangs, and on that account, we think should have precedence of the other Gibbons. We subjoin the letter of Dr. Burrough that accompanied the specimens furnished Dr. Harlow, which is interesting as a detail of a few distinguishing features of this singular species.

"The specimens of the ourang-outang or Gibbons, furnished you, were obtained by me during my late excursion into the interior of Bengal. They were presented to me by Captain Alexander Davidson, of the Honourable East India Company, stationed at Goalpara, situate on the Burrampooter river, in *Assam*. This district of country was formerly attached to the Burmese empire, but at present is in possession of the East India Company, and constitutes the north-eastern limits of their territory in this quarter.

"The ourang, of which I am now to speak, called by the Assamese 'Hoolock,' is to be met with on the Garrow Hills, in the vicinity of Goalpara, between latitudes 25 and 28 degs. north; and the specimens brought to this country by me, were taken within a few miles of the town of Goalpara. The full grown one, which at this time you have prepared, was in my possession, alive, from the month of January to May, when it died from a blow it received across the lumbar region, inadvertently inflicted with a small stick by one of my servants at Calcutta. They inhabit more particularly the lower hills, not being able to endure the cold of those ranges of the Garrows of more than 4 or 500 feet elevation. Their food, in the wild state, consists, for the most part, of fruits common only to the jungle in this district of country; and they are particularly fond of the seeds and fruits of that sacred tree of India, called the Peopul tree, and which, on the Garrow Hills, attains a very large size. They likewise partake of some species of grass, and also the tender twigs and leaves of the Peopul and other trees, which they chew, swallow the juice thereof, and reject the indigestible part. They are easily tamed; and when first taken show no disposition to bite, unless provoked to anger, and even then

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\* Nearly allied to the Cephalote of Peron. Its fur is cinereous gray above, white pale beneath, and the belly undulated. The nostrils are tubular, distant, and open. The index finger is provided with a nail. The body is about four inches, and the wings one foot and four inches wide. The tail is not quite an inch.

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2



3



4



5



1 Caucasian Variety of the Human Species 2 Mongolian Do 3 Ethiopian Do 4 American Do 5 Malay Do

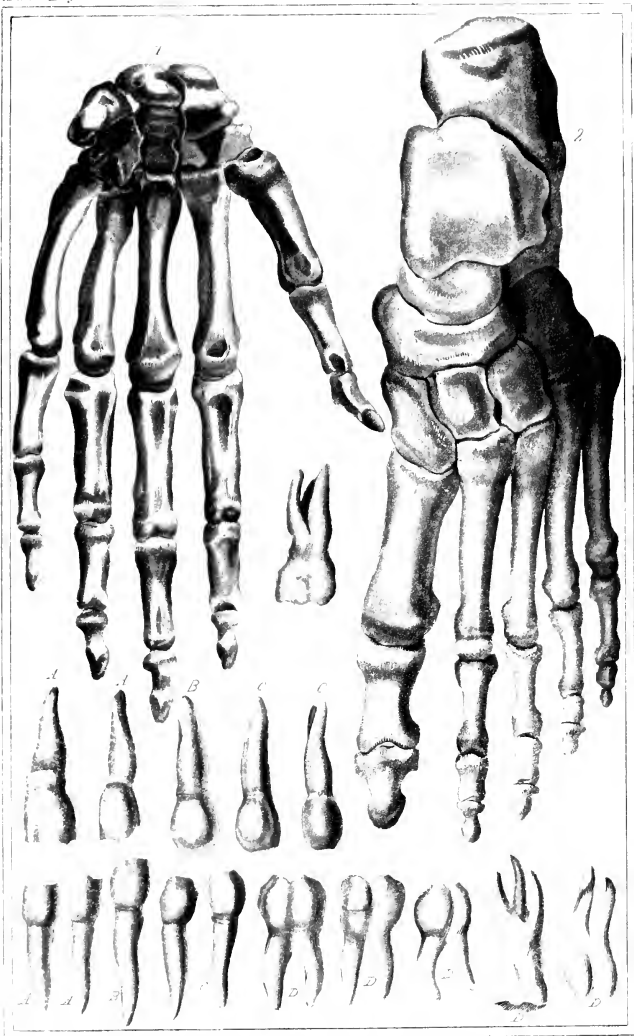




1. Skull of a Georgian female (Caucasian Variety) 2. Skull of a Chinese (Mongolian Variety) 3. Skull of a Negro-Ethiopian Variety 4. Skull of a female of the same race as in 3, but the orbita is widened by pressure in infancy. (American Variety) 5. Skull of a Turkish female (Oriental Variety)



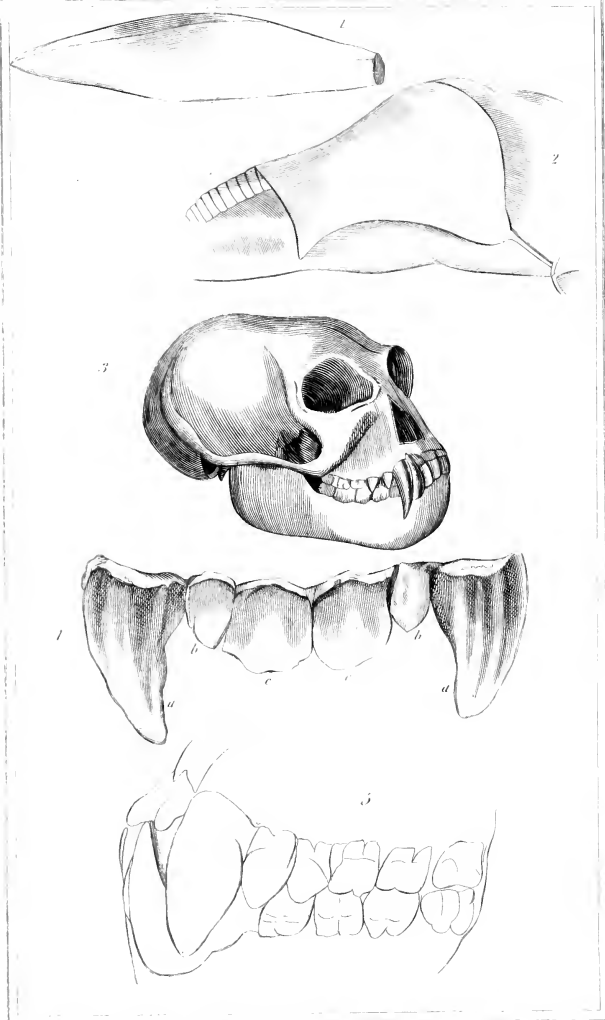




1 The left hand of a Man with the Twenty-seven bones. 2 The left foot of a Man with the 26 bones.  
 A A the cutting teeth or Incisors. B the canine teeth. C the grinding teeth called the first or bicuspid. D D The other grinders or molars.

Source: C. Temerson & Olden.

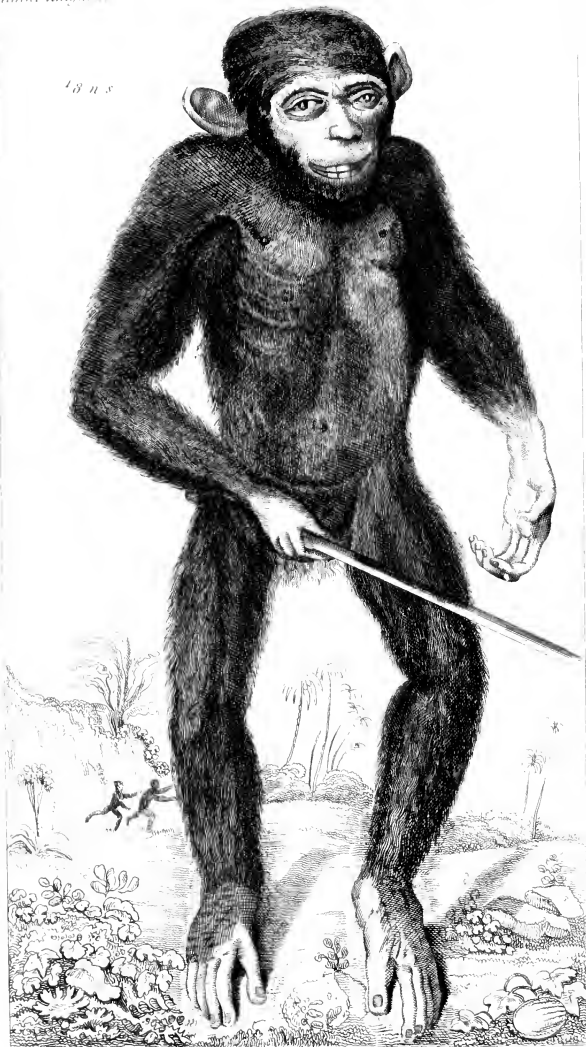




1 Canine Tooth of the Asiatic Orang Outang 2 Horn of the Hyoid bone of the Red Howling Monkey  
3 Head of the Howling Monkey 4 Front of the Upper Jaw of the Asiatic Orang Outang a a Canine Tooth  
b b Cutting Teeth c c Cutting Teeth twice the breadth of the outside ones 5 Dentition of the Pongo

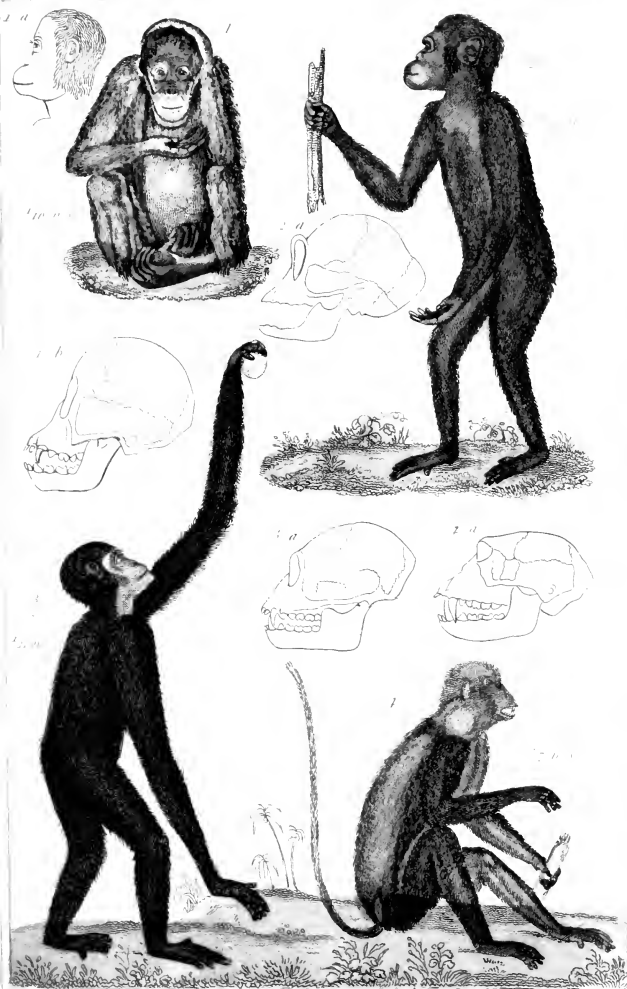


18 n s



*Front View of the  
Orang Outang or Family of Teyou*





1 *Simia satyris* The Orang Outang 2 *Simia troglodytes* The Chimpanzee 3 *Hylobates syndactylus* The Stinkang another View see *Mammalia* Pl. 7 4 *Cercopithecus aethiops* The Monkey

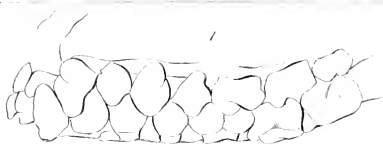






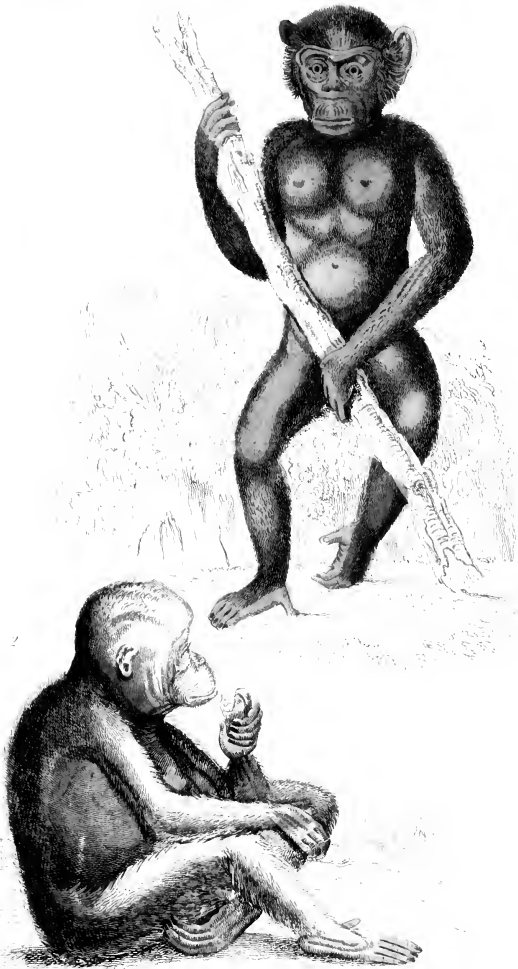
*Back View of the  
Orang Outang or Pigmy of Tysen.*





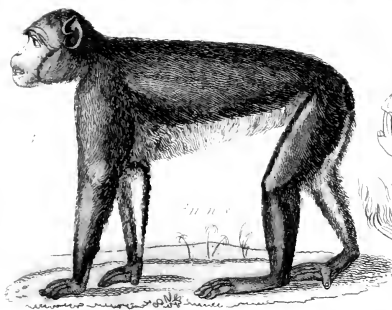
1 Dentition of the Howling Monkey. 2 The Lower Jaw of the Howling Monkey. 3 The Face of the Howling Monkey. 4 Dentition of the Howling Monkey.





1. *Troglodytes Niger*. The Black Orang. 2. *Pithecius Satyrus*. The Red or Asiatic Orang. Outang. Side View





1 *Semnopithecus melalophus* Batf The Singur 2 *Macacus nemestrinus* F. civ. The Borneo Baboon

3 *Inuus silvanus* The Barbary Ape







1 *Hylobates syndactyla* The *Stamand*. 2, *Lastopyga nemea* The *Cochin-China Monkey*.  
3 Teeth of the *Xenopithecus*. Geoff. St. Hil.



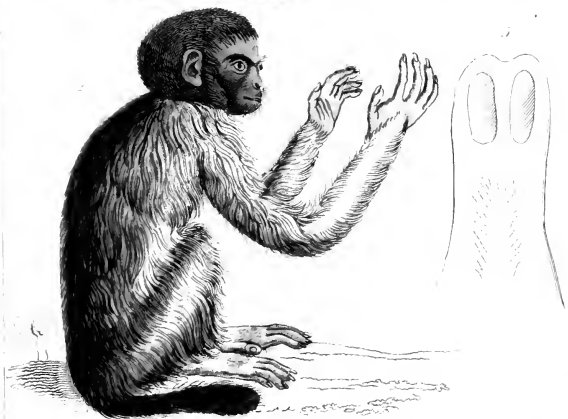


Punch



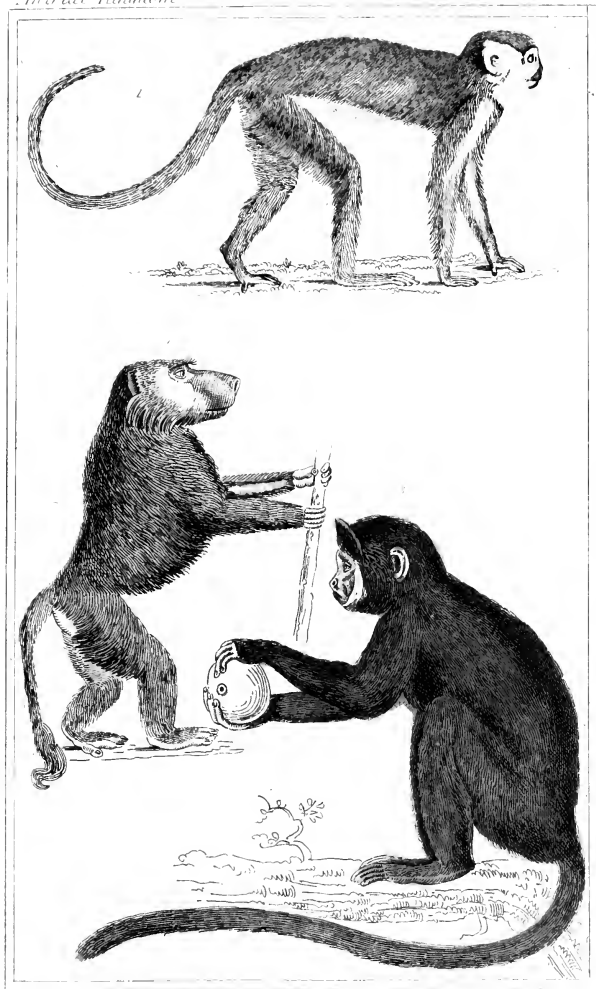
1. *Nasalis larvatus*. The *kahau* or *Proboscis Monkey*. 2. *Pithecius satyrus*. The *Red* or *Asiatic Orang Utan*. (Front View). 3. Foot of the *Stomang*. 4 & 5. Dentition of the *Semnopithecus maurus*.





1 *Macacus silenus*, *The Chimpanzee*. 2 *Pithecia melanocephala*, *The Cebus*.  
 3 & 4, *Teeth of the Cebus*, *Geoff. & Hil.* 5, *Nose of the Habao or Prepossee Monkey*, *Na-*  
*salis Larvatus, Geoff. & Hil.*

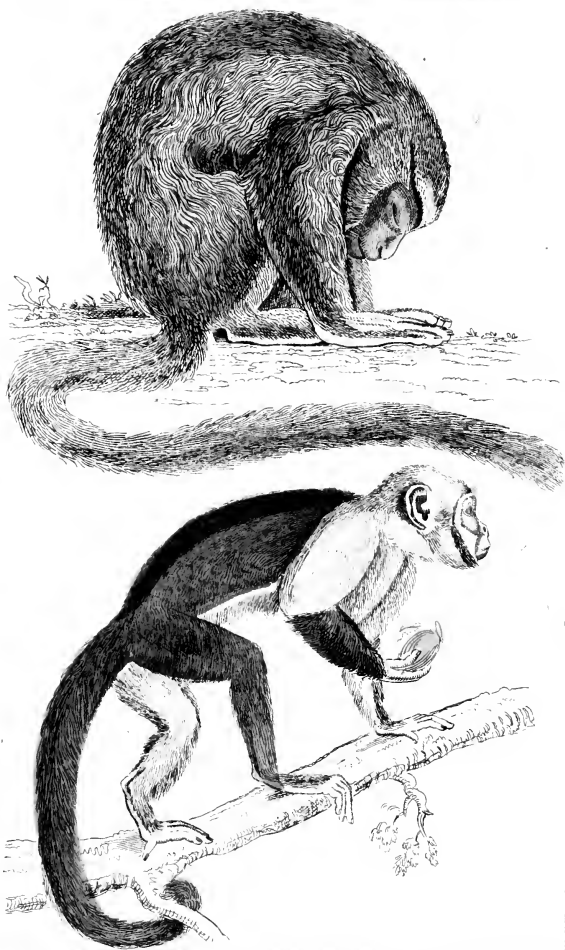




1. *Cercopithecus ruber*, *C. ruber*, The Red Monkey. 2. *Papio caninus*, *P. caninus*, The Chimpanzee. 3. *Cebus fatuellii*, *C. fatuellii*, The Horned Capuchin.

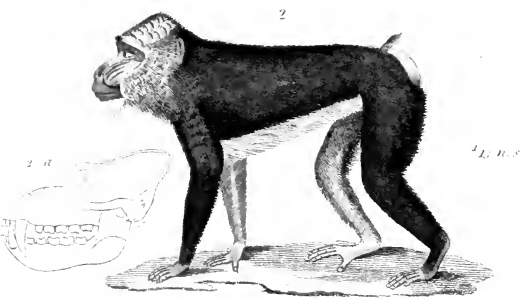
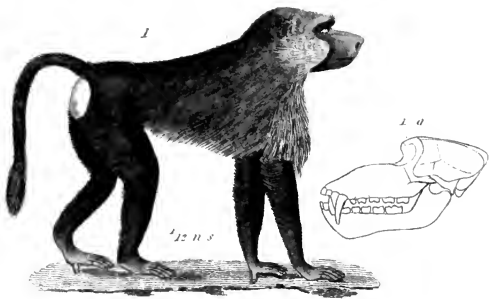






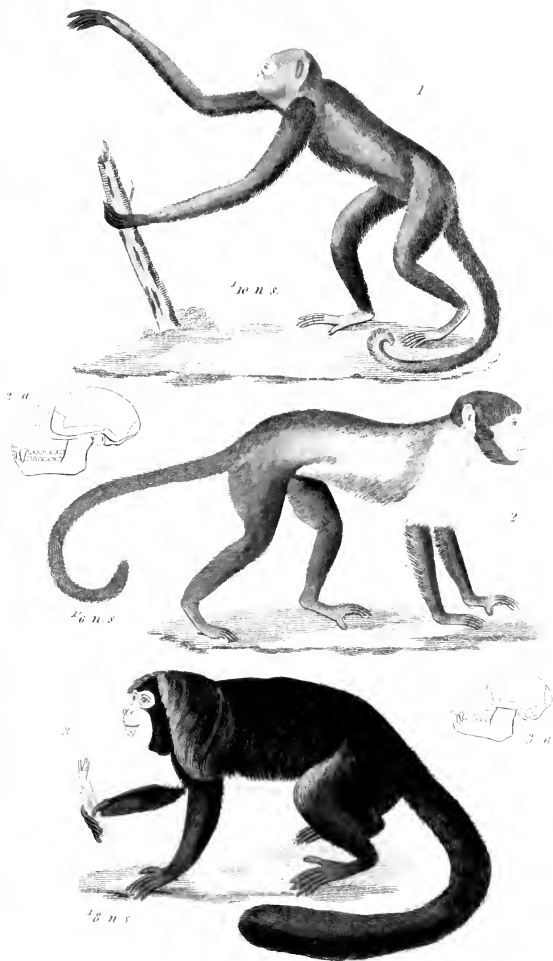
1 Ateles trichogatus (Humboldt) 2 Cebus monachus (Humboldt)





1 Cynocephalus p... The Cynocephalus 2 Papio... The Mandrill  
3 Mycetes... The Red Howler Monkey





1. *Brachyteles hypsanthus*. The Mikirt. 2. *Cebus apella*. The Waper Sapeou

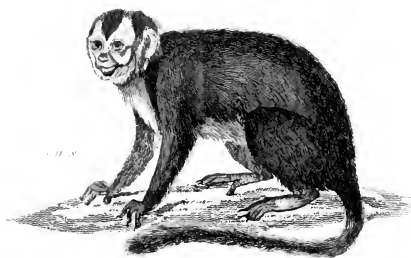
3. *Pithecia ragiventer*. The Red-bellied Saka.





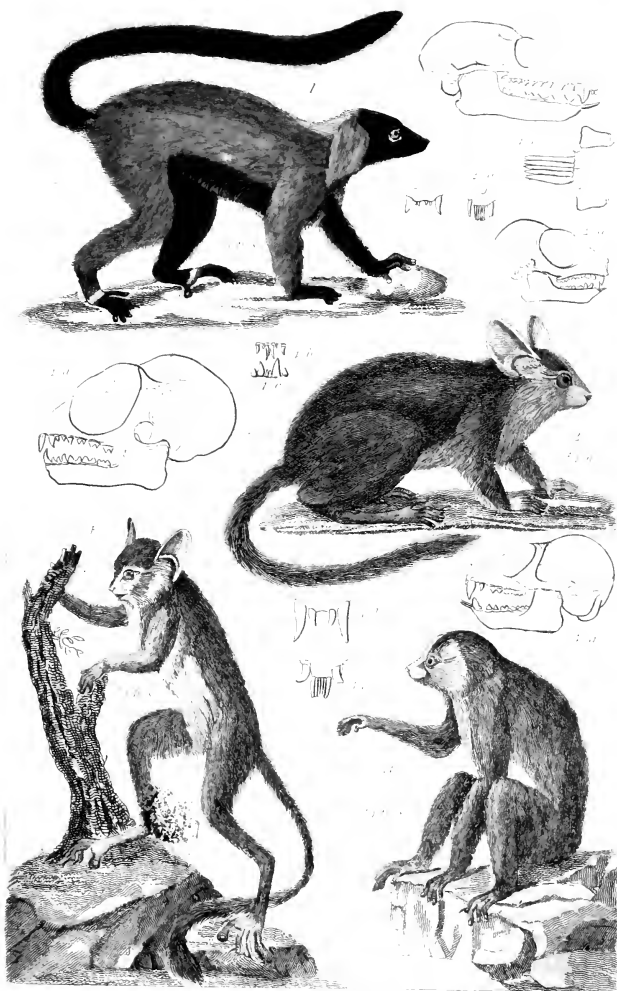






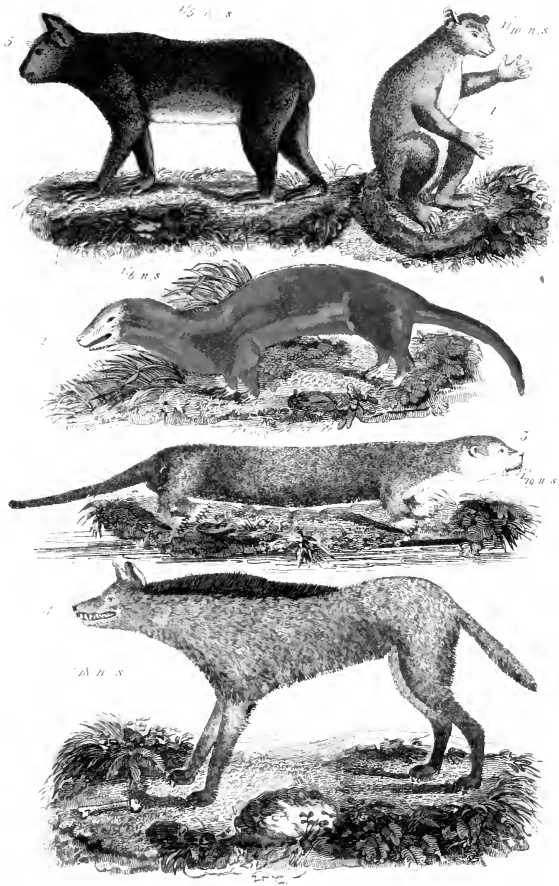
1 *Nothofelis trivincta* The Denticulate 2 *Haplorhina* The Black Monkey  
*Lachanotus* under The Monkey





1 *Leontideus* - The East Indian. 2 *Galago* - The West Indian. 3 *Steinhops* - The South American. 4 *Tarsius* - The Chinese.

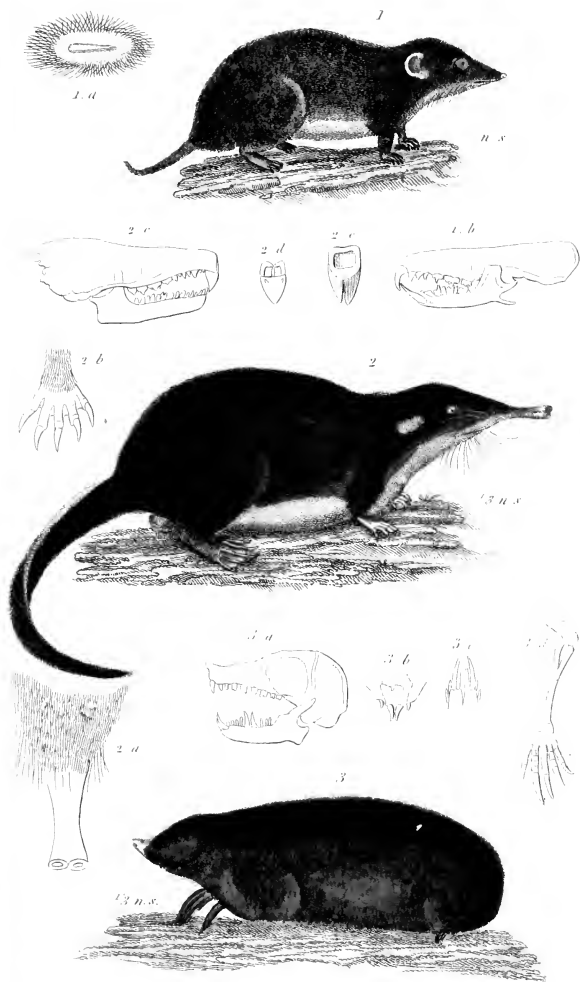




1. *Galago crassicaudatus* the Great Galago  
 2. *Alastodeltapha* the White Vison of the Furriers  
 3. *Mustela Intra Brasiliensis* the American Otter  
 4. *Canis Rubatus* the Red Wolf  
 5. *Koala Canis* the Ash coloured Koala

London G. Henderson 2 Old Bailey

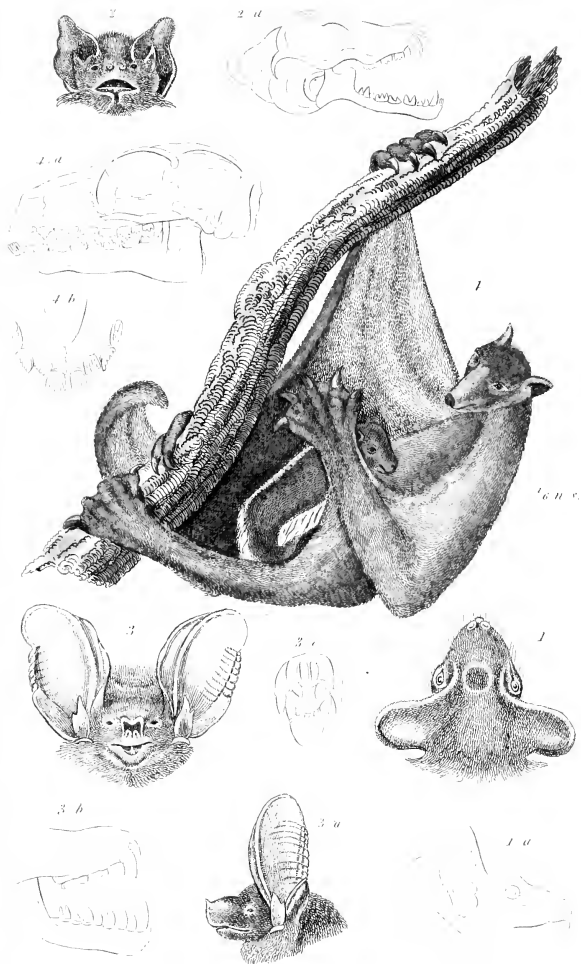




1 *Sorex araneus* Lin. The Common Shrew: 2 *Mygale meschatus* Lin. The Russian Mole Rat  
3 *Chrysochloris asiatica* Lin. The Geldu Mole.







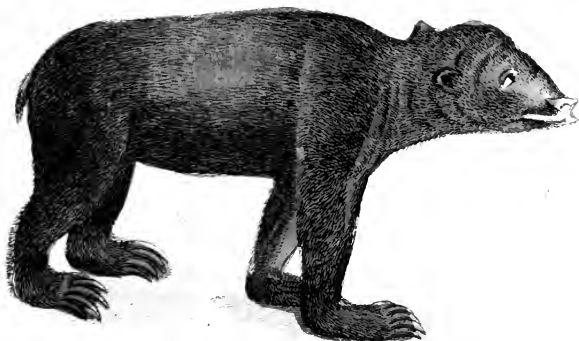
1. *Taphozous mauritanicus* Geoff. St. H. l. The Mauritius Bat. See Bat. 2. *Vesperugo pipistrellus* Linn. The Pipistrelle. 3. *Thyroptera venusta* Geoff. The Tinian Bat. 4. *Caleopithecus vespertinus* Geoff. The Red flying Lemur &c.





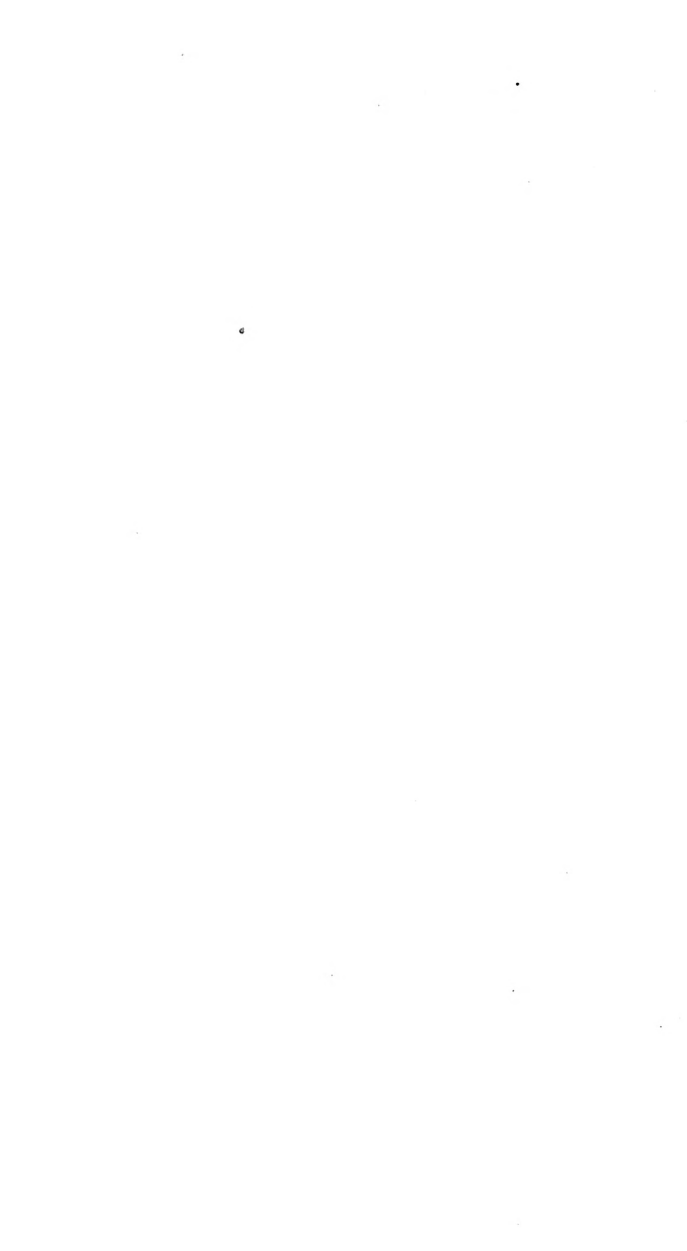
1 *Erinaceus europaeus* Lin. The Common Hedge Hog. 2 *Centurus semispinosus* The Radiated Ferret.  
3 Head of the *Centurus setosus* The Pindrac. 4 *Cladobates ferruginea* The Ferruginous Pupara.

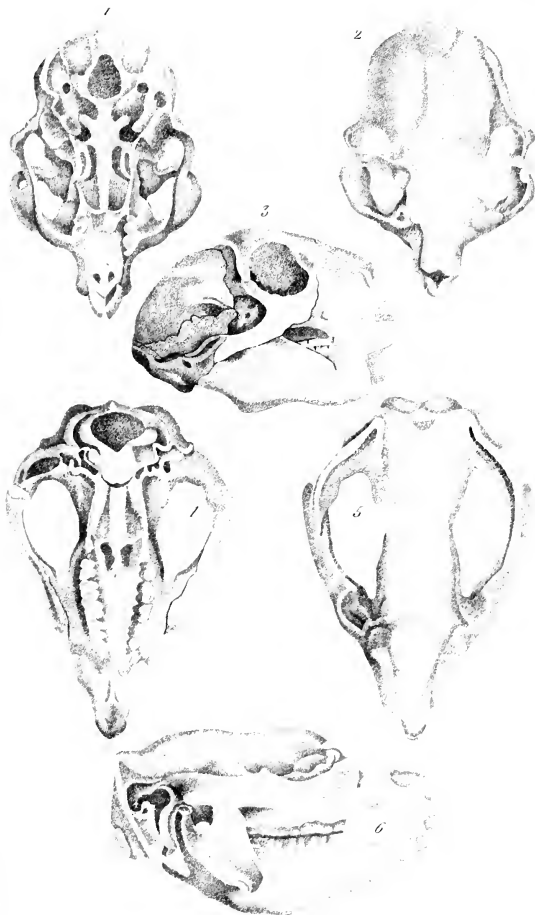




1. *Ursus labiata* Blainv. The Thick-kneed Bear. 2. *Ursus arctos* The Brown or Common Bear of Europe. 3. *Ursus malayanus* Horsfield. The Malay Bear.

London: W. H. Anderson. 2nd Ed. Engrs.





*Heads of two Anomalous Mammiferous Animals*

1 2 3 the skull of the *Aye Aye* (*Cheiromys Madagascariensis*) in three views the base 1 the top 2 the side 3

4 5 6 the skull of the *Wombat* (*Didelphis Ursina* Shaw *Phascogalea ursina* Geoff Cuv) in three views the base 4 the top 5 the side 6

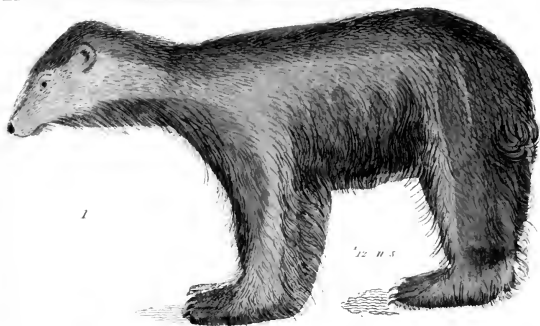
London G. Henderson 2 Pitt Rivers.











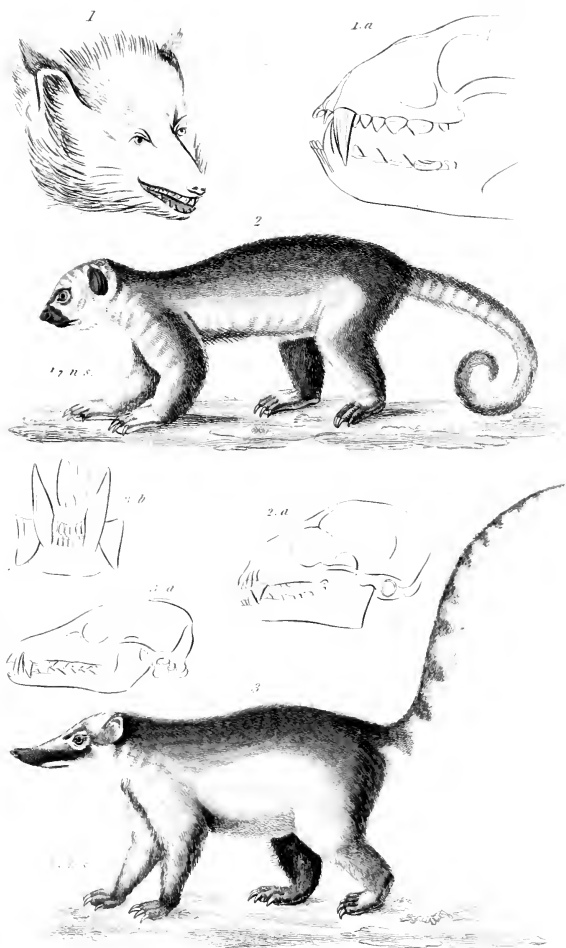
1 *Ursus americanus* (Am.) The North American Black Bear. 2 *Ursus ferox* Lewis & Clarke  
The Grizzly Bear. 3 *Ursus maritimus* The Polar Bear.





1 Ursus americanus (Black Bear) 2 Procyon lotor (Raccoon) 3 Ailuropus (Fisher)





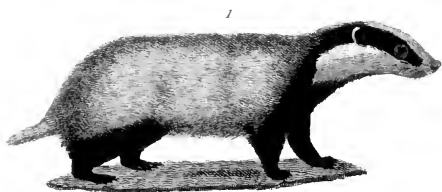
1 Head of the White Benharong.

2 Potos caudocylindrus The prehensile-tailed P. the

3 Nasua rufa The Red Coati







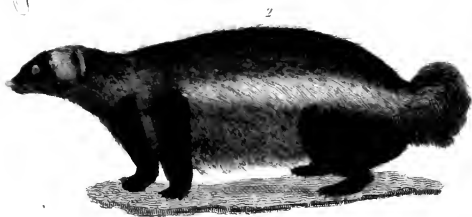
1  
2 1/2 RS



1 b



1 a



2

1 1/2 RS



3 a



2 a

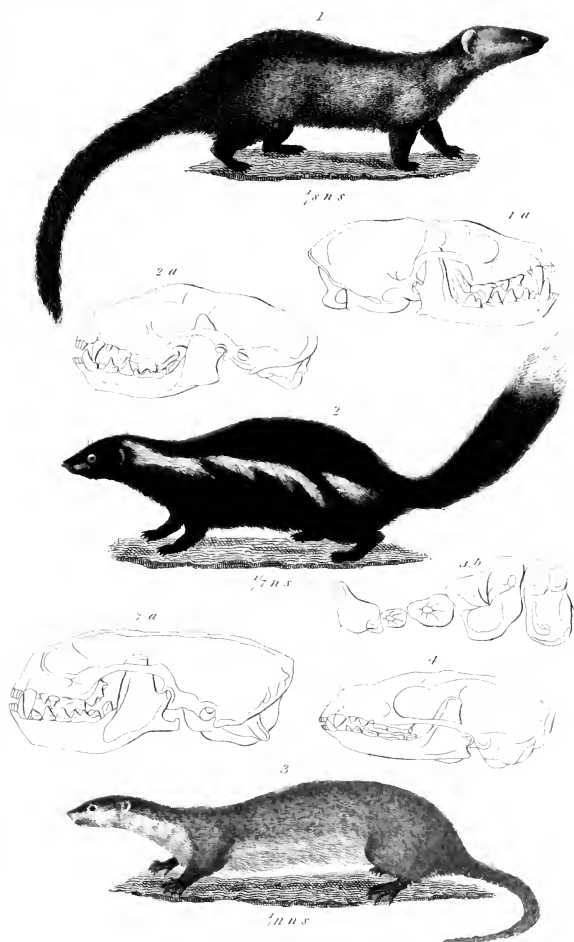


3

1 1/2 RS

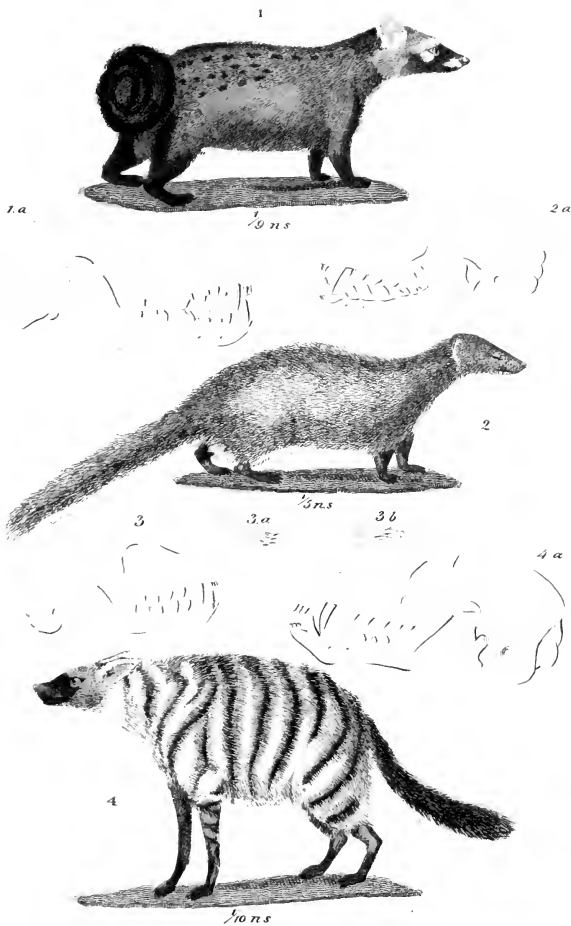
1 *Meles vulgaris* The Common Badger 2 *Gulo arcticus* The Arctic Glutton  
3 *Putorius zonilla* The Cape Pole Cat or Ferret.



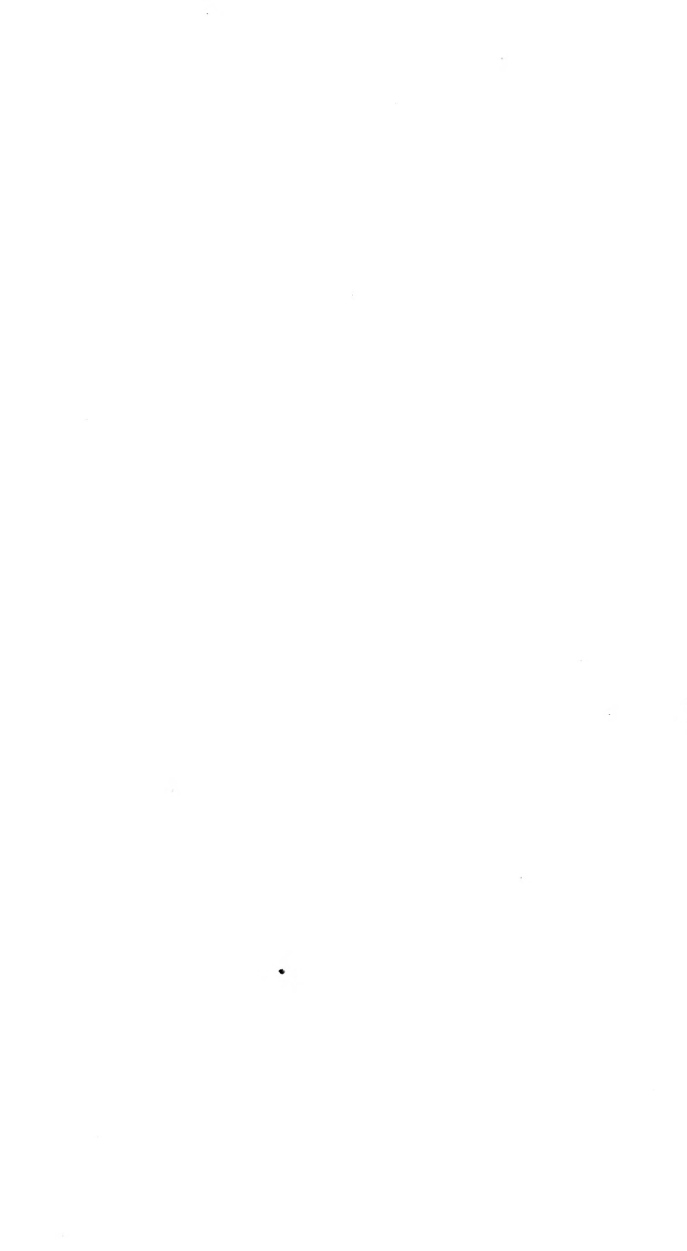


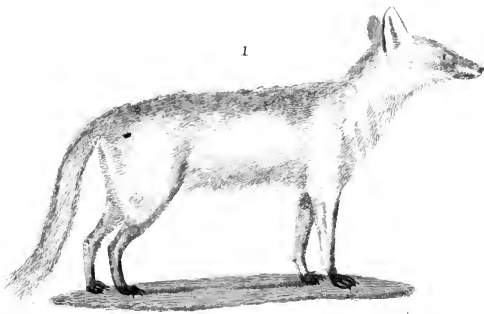
1 *Mastela pekan* The Canadian Marten or Pekan; 2 *Mephitis americana* The American Skunk.  
Lutra nair The Pondicherry Otter; 4 Head of the Javanese Teledu;





1 *Paradoxurus typus* (The Porquouse of India) 2 *Herpestes catira* (The Mongoose of India)  
 3. *Crunum & Paws of Viverra Zeydactyle* the Surbaste 4. *Proteles talandii* (The Mangu of Laland)





1

$\frac{1}{12}$  n s



1 a.



1 b

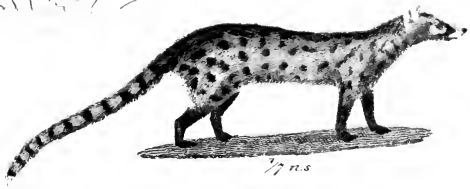
2



$\frac{1}{12}$  n s

3 a

2. a

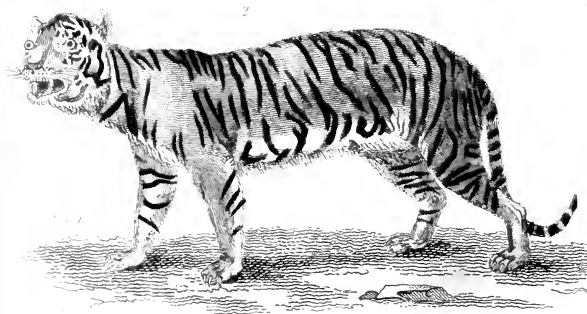
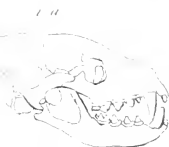


$\frac{1}{17}$  n s

1. *Canis vulpes* The common Fox / 2. *Niverra civetta* The Civet  
3. *Genetta Civ. Viverra genetta* Lin (The common Genet)



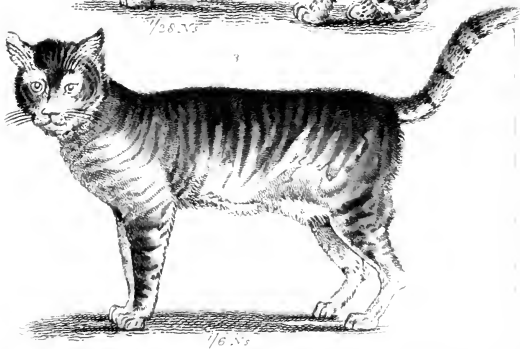
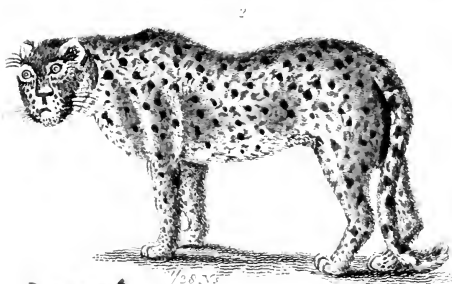
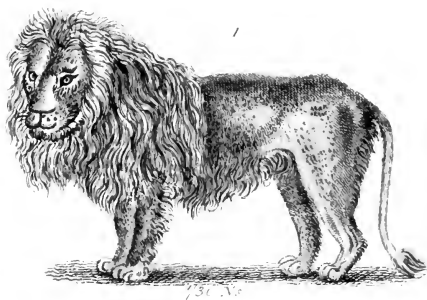




1. *Hyaena brunnea* (Bonaparte) The Brown Hyena.

2. *Felis tigris* The Royal Tiger.

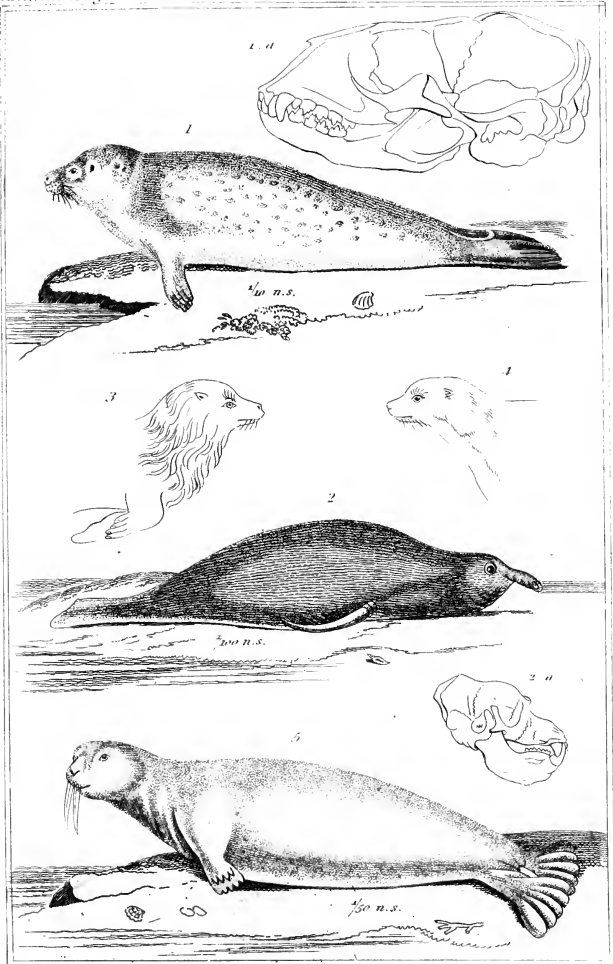




1 Felis leo Lin. The Lion      2 Felis leopardus Lin. The Leopard

3 Felis catus Lin. The Domestic Cat

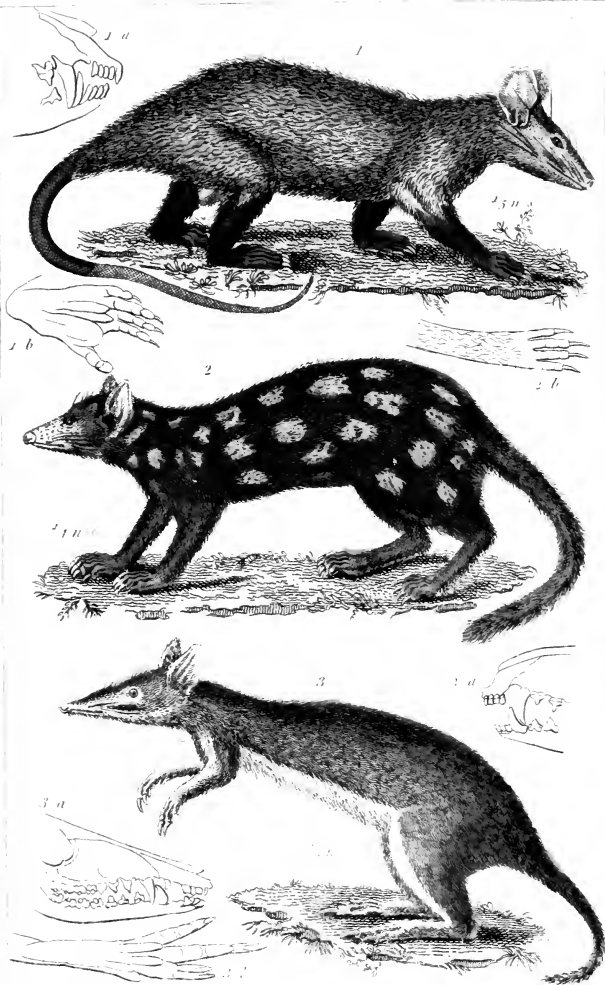




1 *Calceophalus vitulinus* Lin. (iv. The Common Seal) 2. *Macrorhinus proboscideus*, Guv. The Elephant Seal) 3. *Otaria jubata* The Sea Lion of Steller, Pennett &c 4 *Otaria ursina*, The Sea Bear) 5. *Trichechus rosomarus*, Lin. (iv. The Sea Cow of the Eastern Hemisphere

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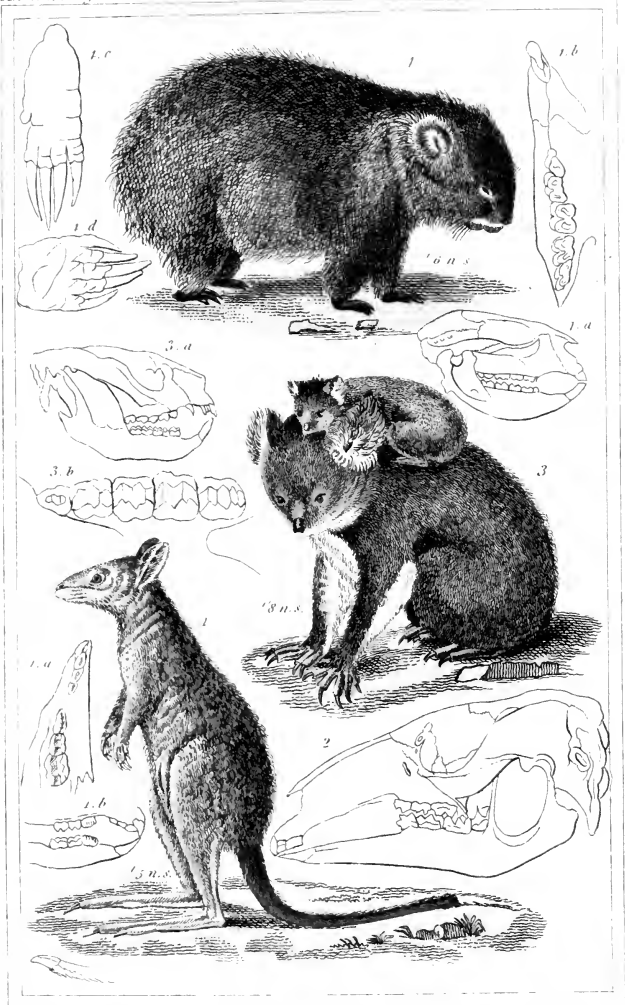




1 *Dulephus ancevora* The Crab-eating Opussum. 2 *Dascaris* White-striped. 3 *Perameles nasutus* The Rat-kangaroo.







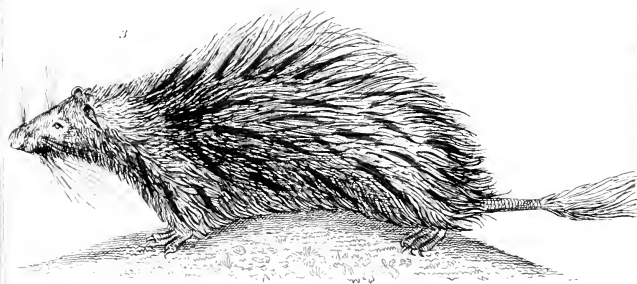
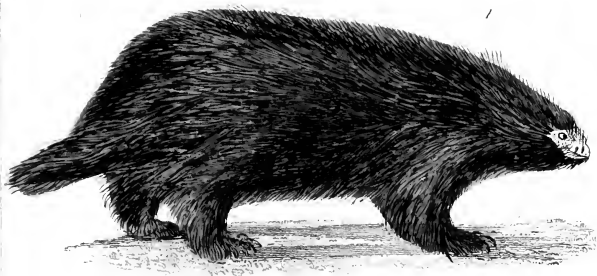
1 *Hypsiprymnus* White, Quoy et Gaim. The Kangaroo Bat or Eptesico. 2 Head of *Macropus major*, Schow. The Greater Kangaroo. 3 *Lipnus cinereus*, Gold. The Kala. 4 *Phascogale* Wombat, Per. The Wombat.





1 *Phalangista rufa*. Geoff. 'The female hollow pointed Phalanger.' 2. Head of the *Petaurus taqwanoides* Desm. 'Taqwan Phalanger.' 3 *Petaurus pygmaeus* Sch. 'The Flying Dwarf Phalanger.'





1 *Hystrix dorsata* Lin. The *Ursen*    2 *Hystrix prehensilis* Lin. The prehensile tailed Porcupine  
or *fourchou*    3 *Hystrix fasciculata* Lin. The pencil tailed Porcupine

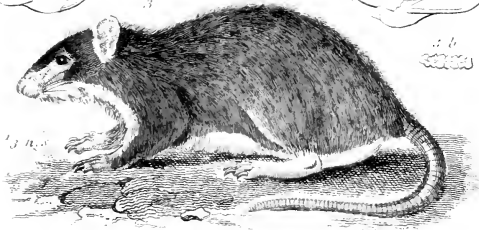
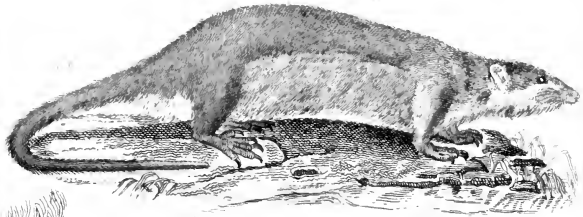




1 *Sciurus arizonae* F. Cuv. The Golden-bellied Squirrel. 2 Head of a *Sciurus*. A Sort of Squirrel.  
 3 *Pteromys volucella* L. The American Flying Squirrel. 4 *Xeromys madagascariensis* Gmel. The  
 Red-eye.



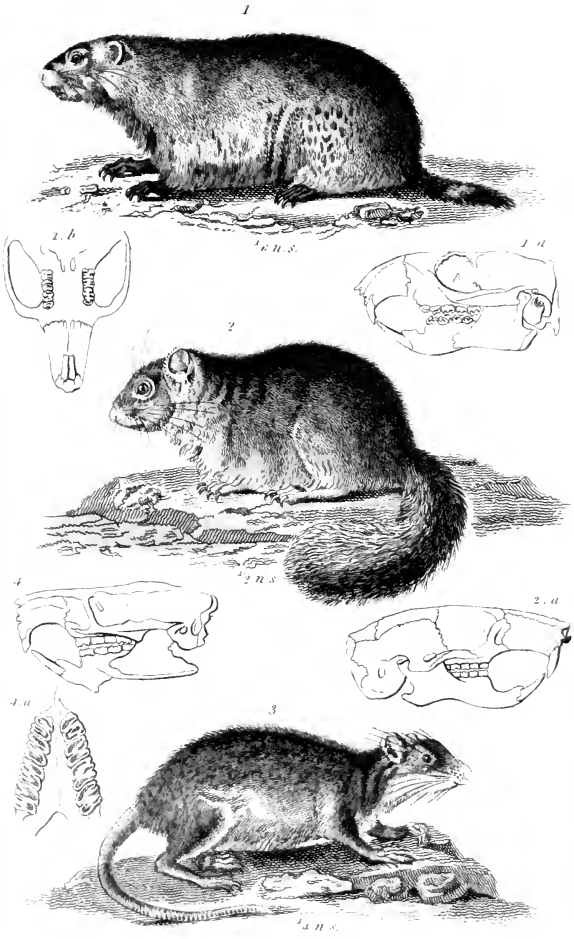




1 *Hyomys chrysogaster*, n. n. The Golden-bellied Rat. Capromys, P. n. l. H. n.

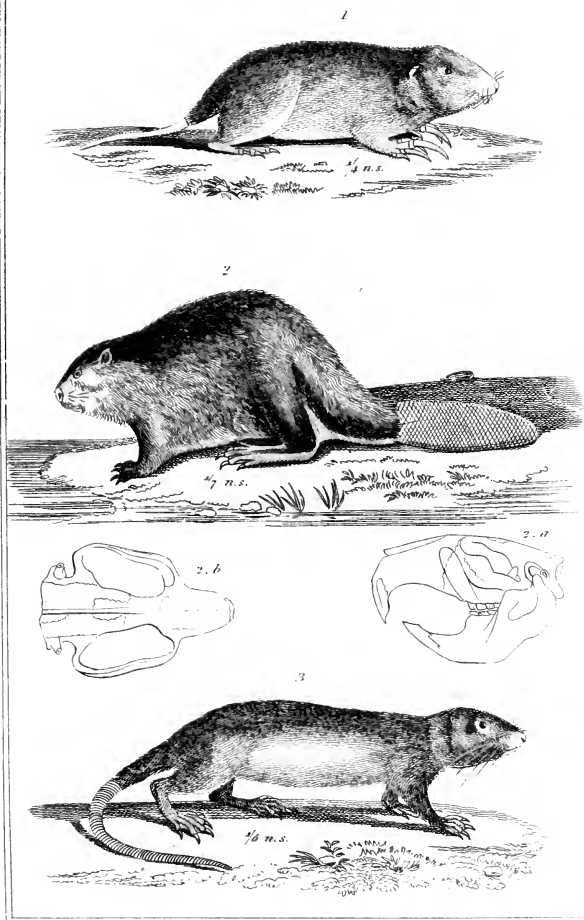
3 *Mus deumense* n. n. The Deumense Rat. Capromys, P. n. l. H. n.





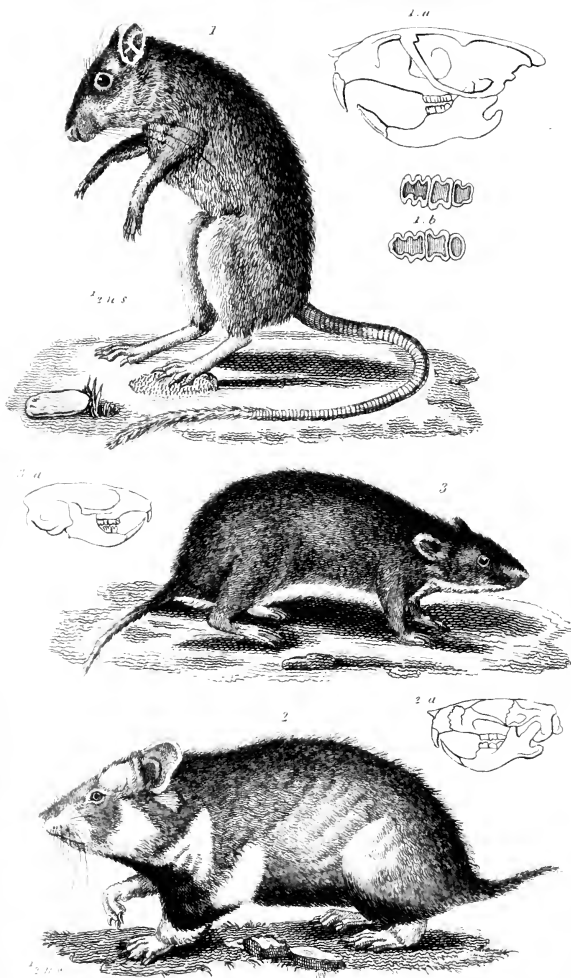
1. *Arctomys chipmunk* Sch. The Quebec Mammals. 2. *Arctomys* (the *Sciurus*) *fulvipes* (the *chipmunk*) 3. *Arctomys* *caryacus* (the *chipmunk*) The *Arctomys* *caryacus* (the *chipmunk*) The *Arctomys* *caryacus* (the *chipmunk*)



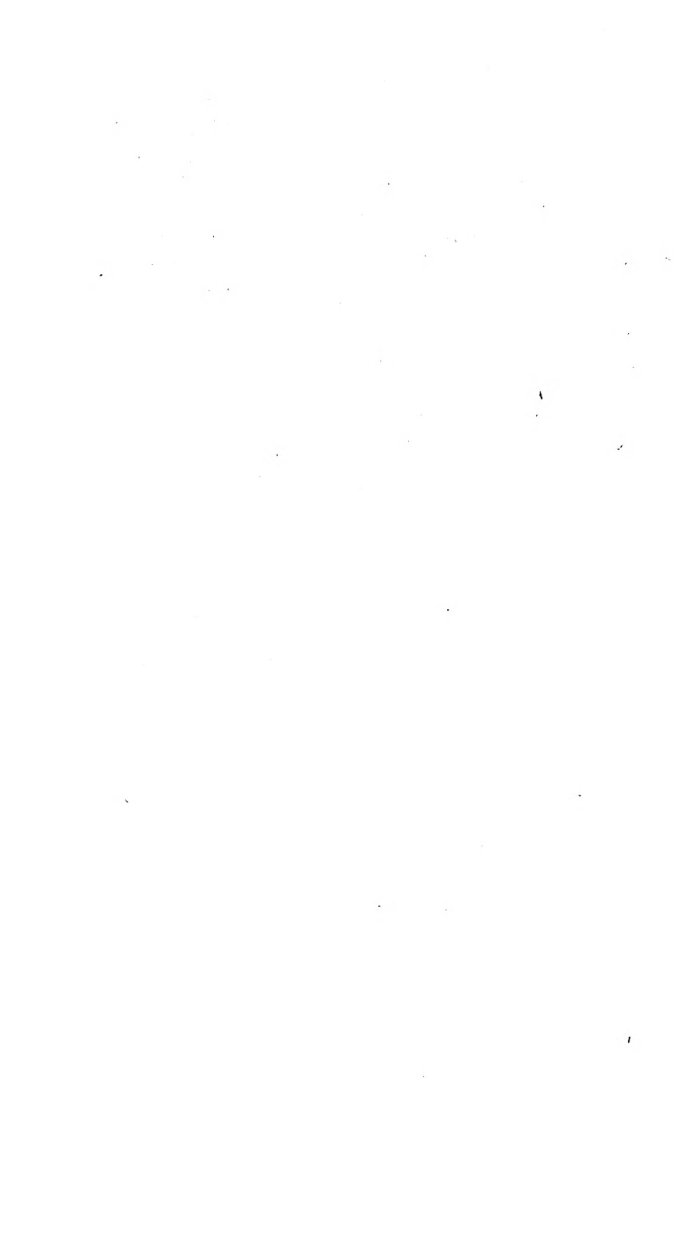


1 *Geomys hirsutus* Shaw, *tax.* [The Canadian Hamster] 2 *Castor fiber* Buff., *tax.* The Beaver  
3 *Myopotamus crinitus* Molina, *tax.* The Coarse Rat

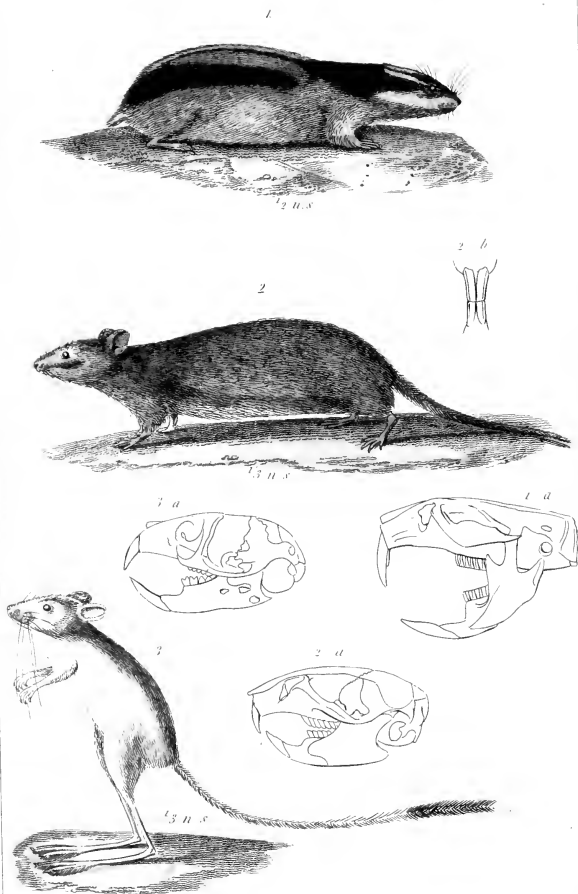




1 *Gerbillus pyramidalis* Laid. Geoff. The gerbil of the Pyramids. 2 *Cricetus vulgaris* Linn. The common Hamster. 3 *Arvicola oeconomus* Desf. The Mead's vole.

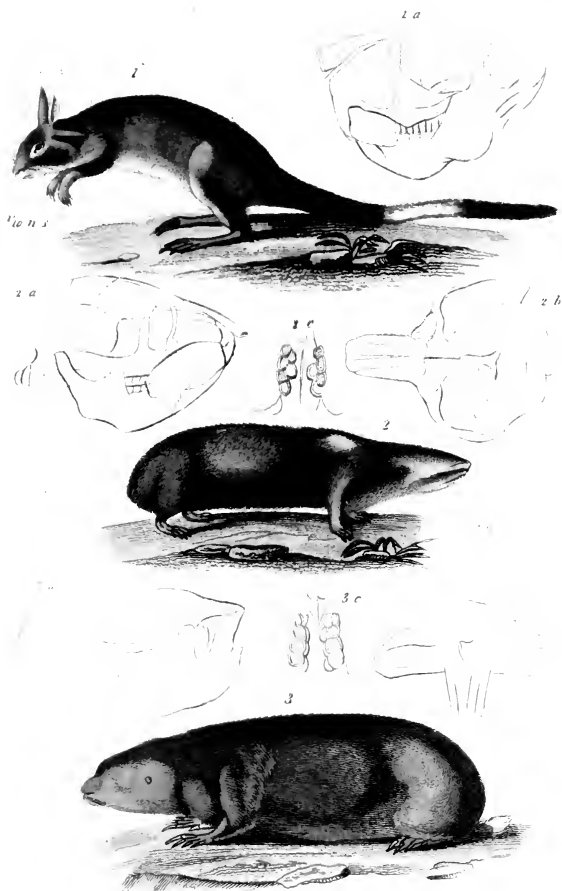






1 *Georychus lemmings*. L. The Lemming. 2 *Otomys capensis* Fr. Cav. The Cape Otomy.  
3 *Dipus hirtipes*. Luth. The Hairy-footed Jerboa.





1 *Helomys rufus* The Jumping Hare 2. *Spalax typhlus* The Blind Mole  
3 *Bathergus maritimus* The Maritime Rob Mole



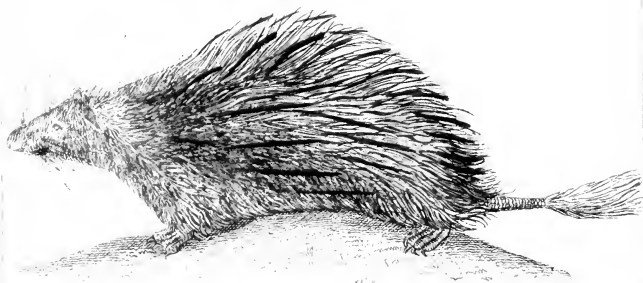
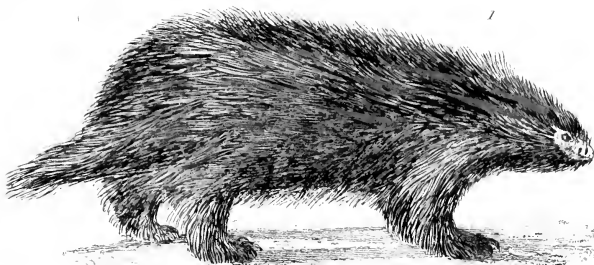


FIG. 1. *Hystrix cristata* Linn. 2. *Hystrix prehensilis* Lin. The prehensile tailed Porcupine  
 3. *Hystrix p. subulata* Lin. The pencil tailed Porcupine



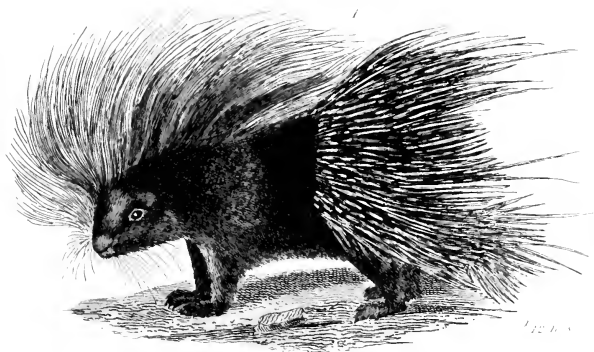


Fig. 1.



Fig. 2.



Fig. 3.



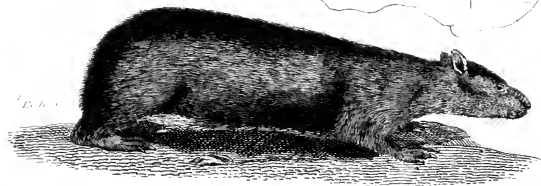
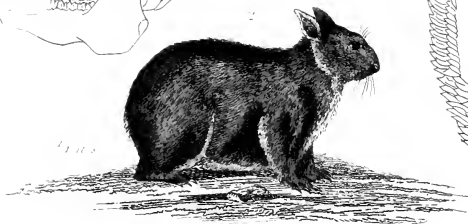
Fig. 4.

1 *Hystrix cristata* Lin. The Common Porcupine.

2 *Syntherisma munda* The Quagga Porcupine.







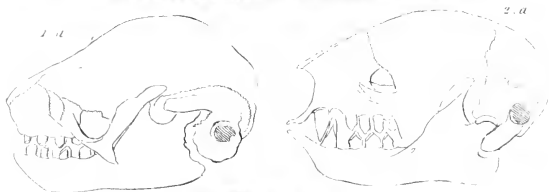
1. *Lepus timidus* Lin. The Common Hare. 2. *Lagomys alpinus*, Pall. The *Lagomys pica* or Alpine Hare.  
3. *Hydrochirus capybara*. The Capybara.





1. *Arvicola* *fig. n. s.* The *Arvicola* Fig. 2. *Chloromys* *acucha* The *Acucha*  
3. *Geokorys* *paca* The *White spotted Paca*

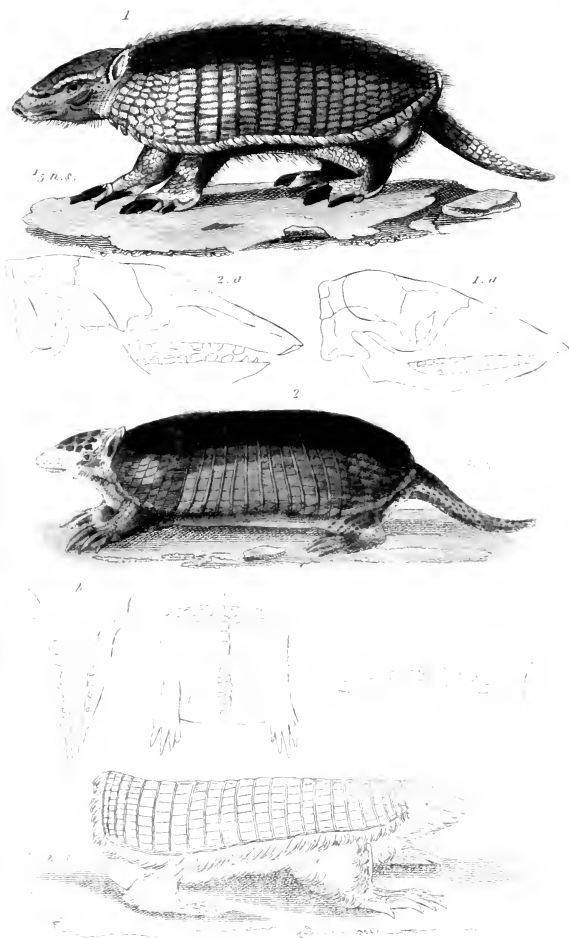




1 *Ailuropus torquatus* Geoff. The Black-tailed Sloth

2. *Brachypus discolor* (Gray) The Chaco

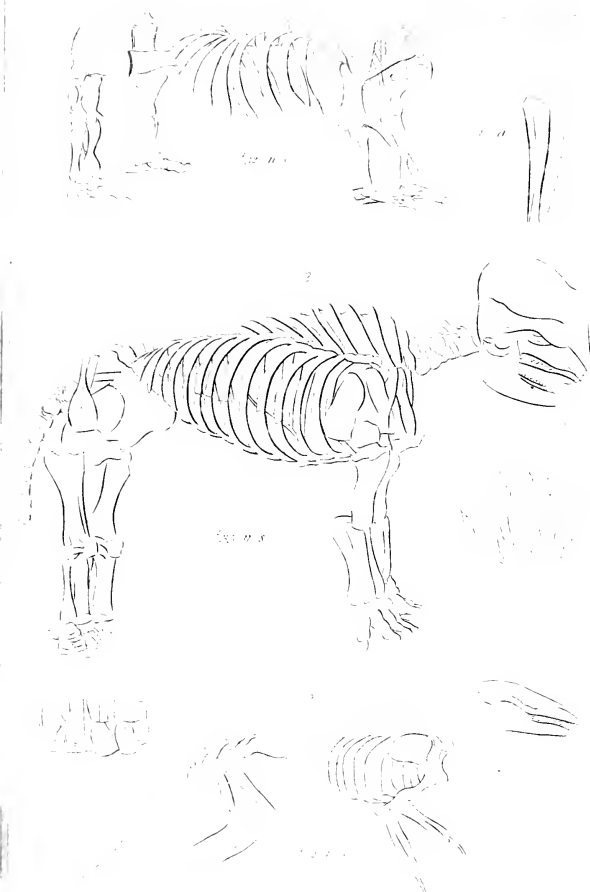




1. *Dasypus encabertii* n. sp. (from the collection of the author). 2. *Dasypus novboracensis* (from the collection of the author). 3. *Chlamyphorus truncatus* (from the collection of the author).





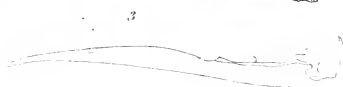


1 *Megatherium darwini* Desm. 2 *Mastodon angustirostris* Desm. The Great Mastodon  
3 *Anoplotherium commune* Desm.



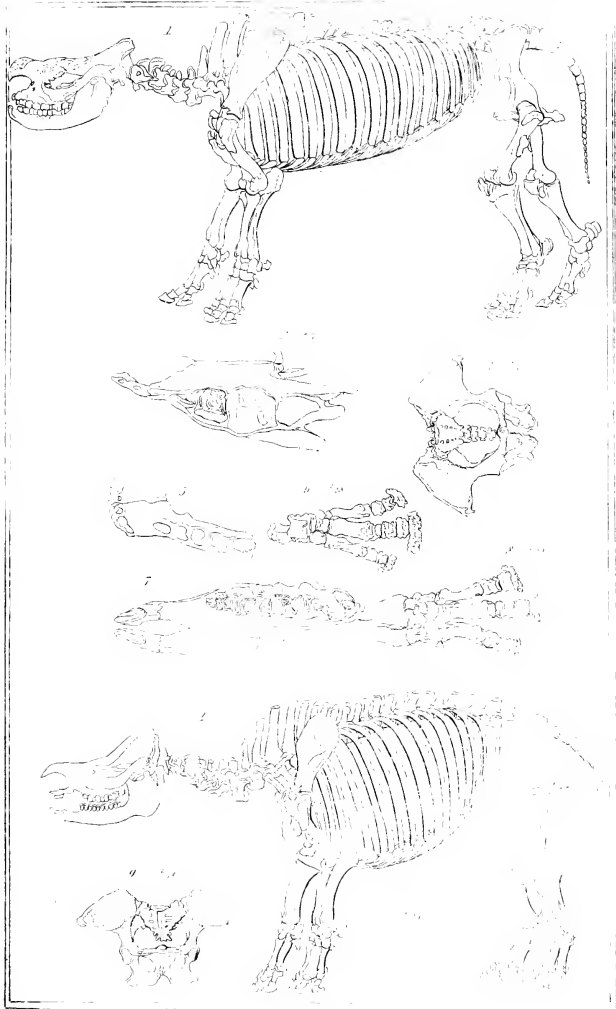


2 a



1. *Orycteropus capensis* The Cape Ground Hog / 2. *Myrmecophaga didactyla* The Two-toed Ant-Eater /  
3. Head of the *Myrmecophaga jubata* Tamandua! 4. *Manis tetradactyla* Lin. The Tamandua

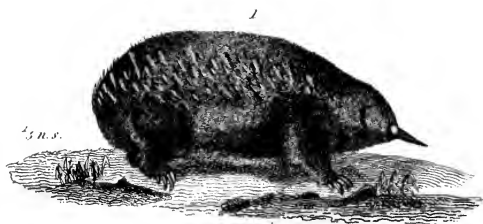




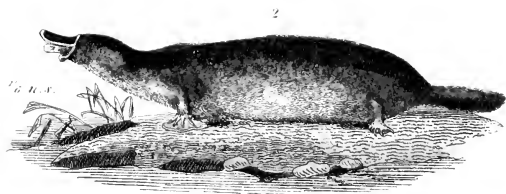
1. Skeleton of the Two horned Rhinoceros 2. Skeleton of the One horned Rhinoceros of Java.

3 to 9. Anatomical details of the Rhinoceros. For further description see explanation of the plates at the commencement of the Volume.





1. a



1. *Echidna setosa* The Bristly Echidna

2. *Orthorhynchus paradoxus* Blain The Paradox Animal of New Holland



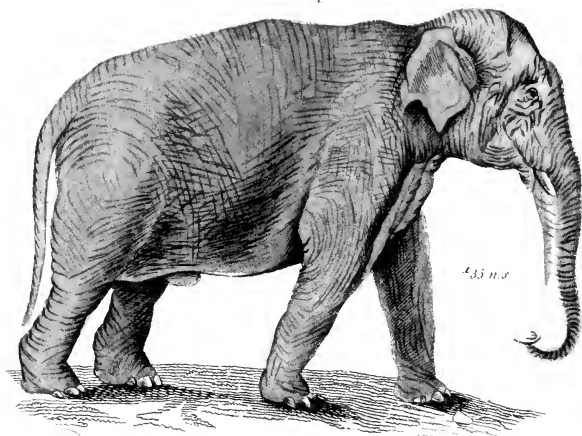




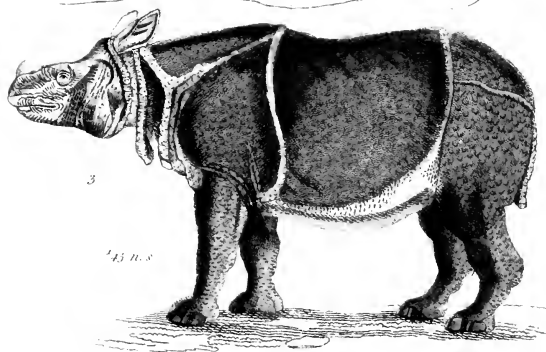
*Skeleton of the Indian Elephant  
in a nearly fossil state, discovered in China*



1

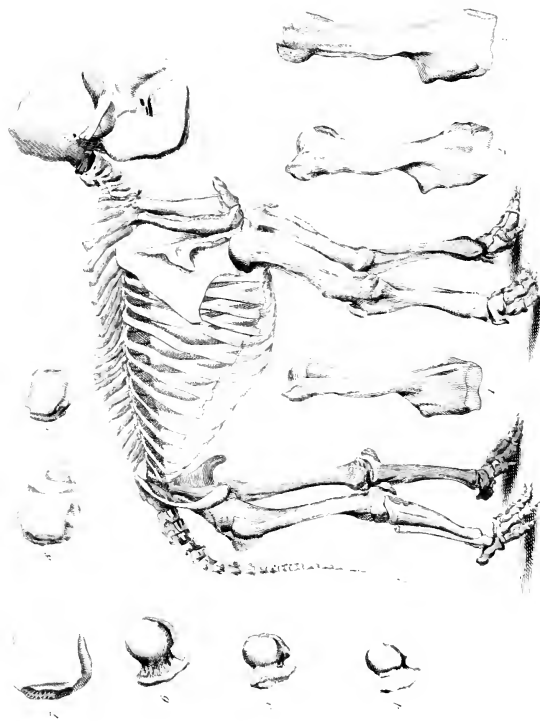


2



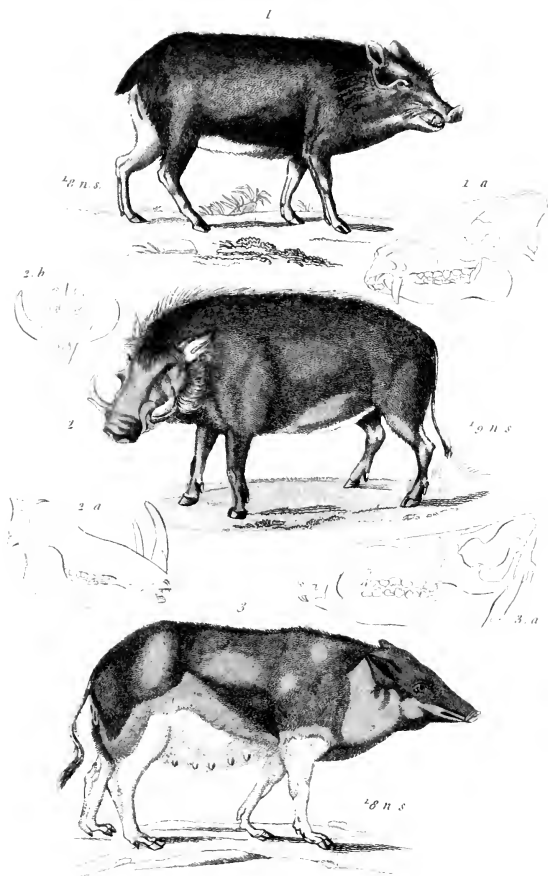
1 *Elephas indicus* The Indian Elephant 2 Teeth of *Elephas* The African Elephant  
3 *Rhinoceros indicus* The Indian Rhinoceros





*Skeleton of an extinct species of Elephant newly allied to that of India. For description see Animal Kingdom Vol. 2. Page 152*



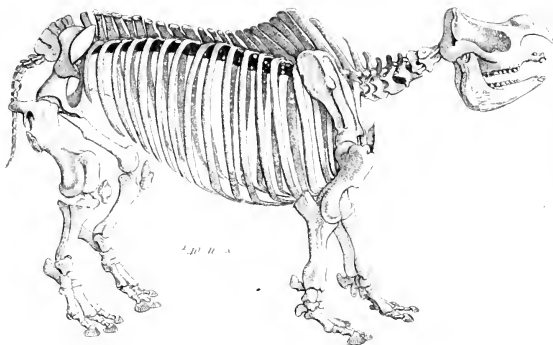


1 *Dicotyles tuberosus* The White lipped Peccary or Tapacou 2 *Phacochoerus Aethiops* The Hog of Ethan.  
 3 *Sus scrofa* Var. of Siam The Wild Hog.

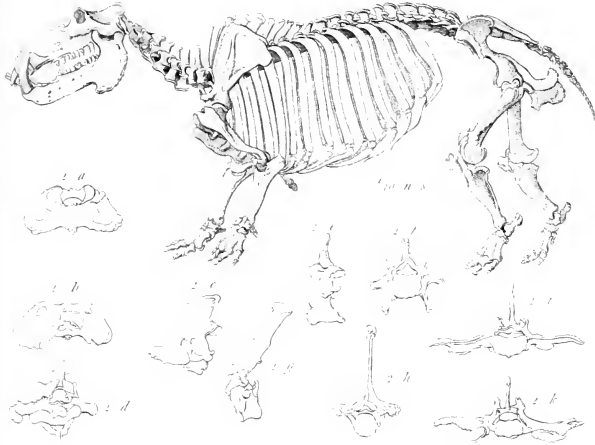




1

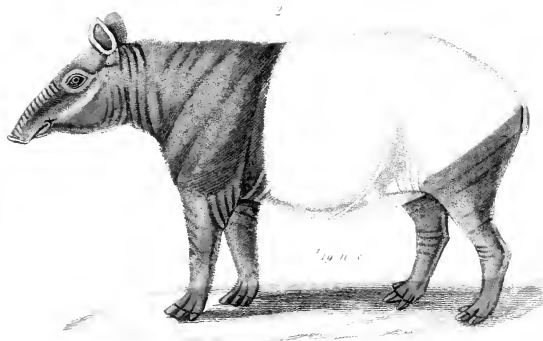
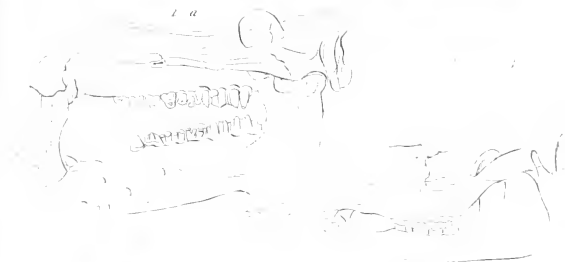
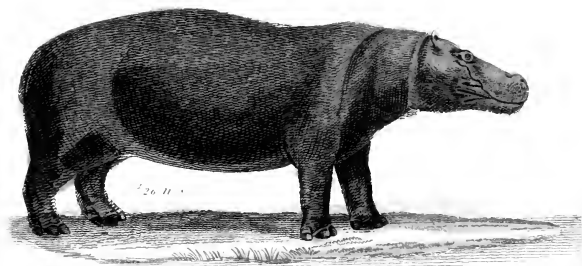


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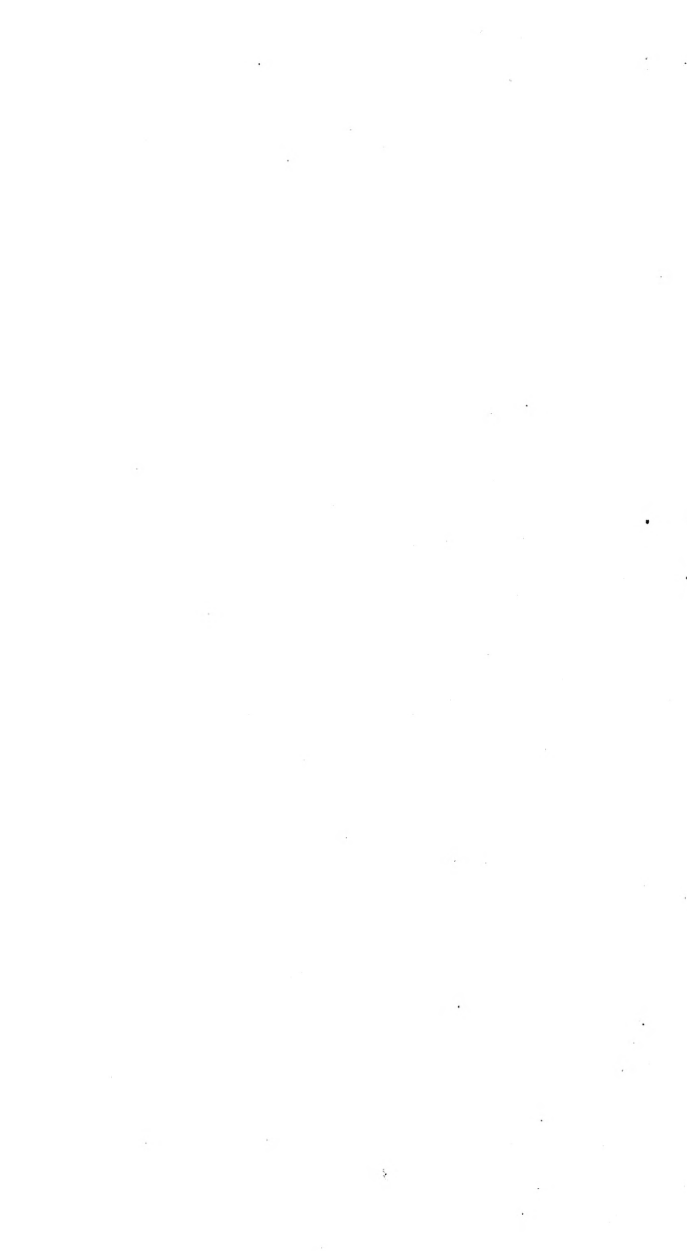


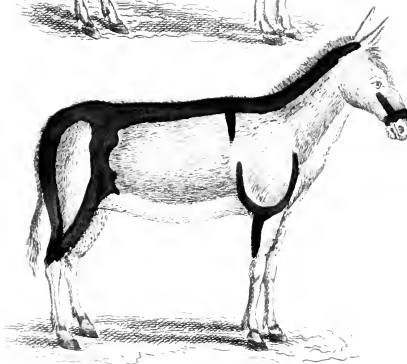
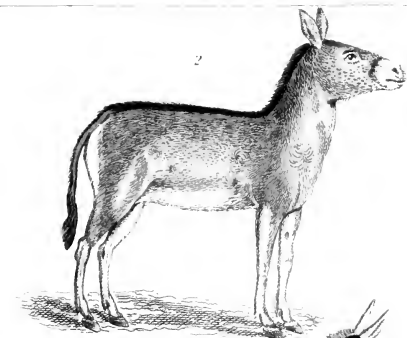
1. Skeleton of the Rhinoceros unicornis. One horned or Indian Rhinoceros.  
2. Skeleton of the Hippopotamus amphibius. Linn. Pl. Hy p. potamus





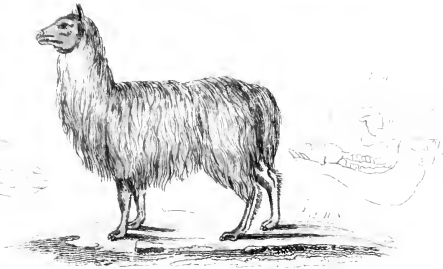
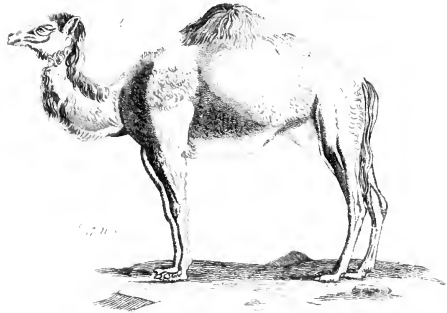
1 Hippopotamus amphibius L. The Hippopotamus 2 Tapirus indicus The Tapir of India  
3 Head of Tapirus americanus L. The American Tapir





1. *Equus asinus* Linn. The Donkey    2. *Equus hemionus*, Pallas    The Dzikquarta  
3. *Equus zebra* Lin. The Zebra



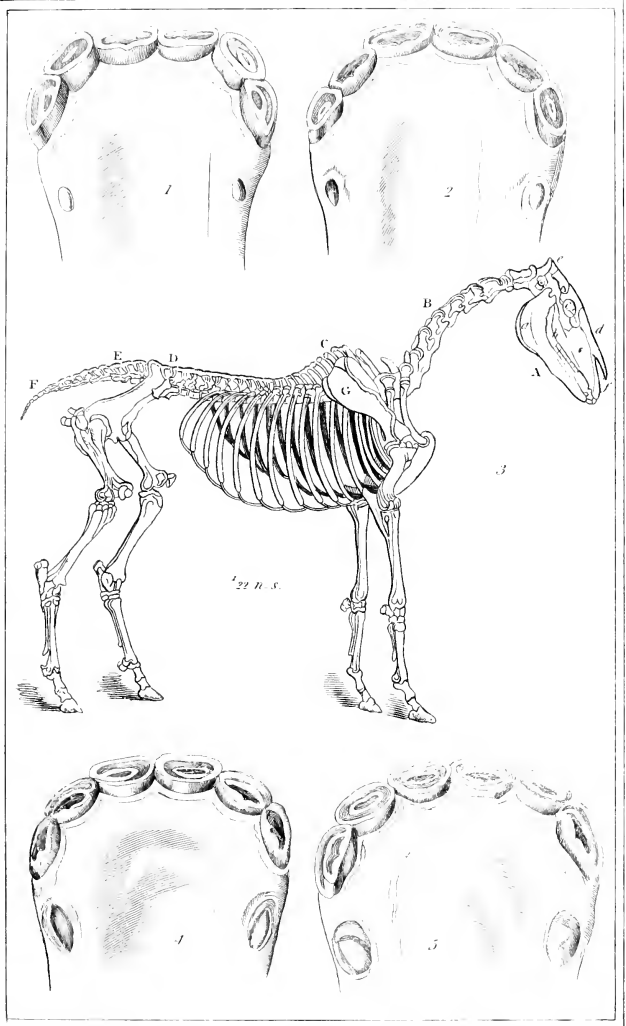


1. *Equus quagga* Lin. The Zebra. 2. *Camelus dromedarius* L. The Dromedary.  
3. *Auchenia llama* Lin. Var. Alpaca. The Llama.

Engraved by J. G. N. S. 1. J. G. N. S. 2. J. G. N. S. 3. J. G. N. S.







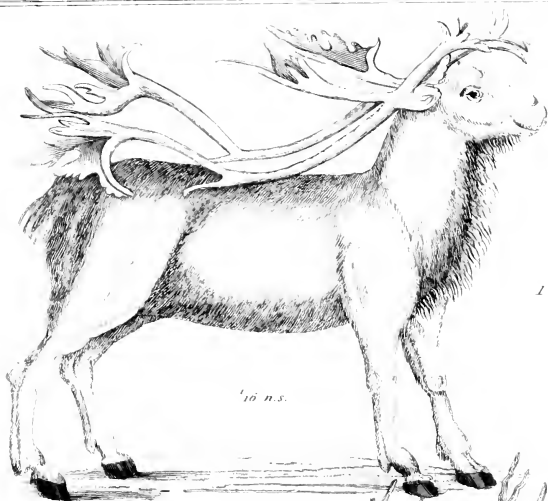
1 The teeth of a horse three years old. 2 The teeth of a horse four years old. 3 External structure of Equus Caballus The Common Horse. A The Head. a The posterior maxillary or upper jaw. b The superior maxillary or upper jaw. c The orbit. d The nasal bone. e The suture dividing the parietal bones below from the occipital bones above. f The inferior maxillary bone. B The seven cervical Vertebrae. C The Eighteen Dorsal Vertebrae. d The Six Lumbar Vertebrae. E The Sacrum. F The caudal Vertebrae. G The Scapula or shoulder blade. H The teeth of a horse six years old.





1 *Moschus Pygmaeus* Bunt The Pygmy Musk Ox 2 Head of *Moschus moschiferus* The Musk Ox  
3 *Cervus virginianus* The Virginia Deer





1

16 n.s.



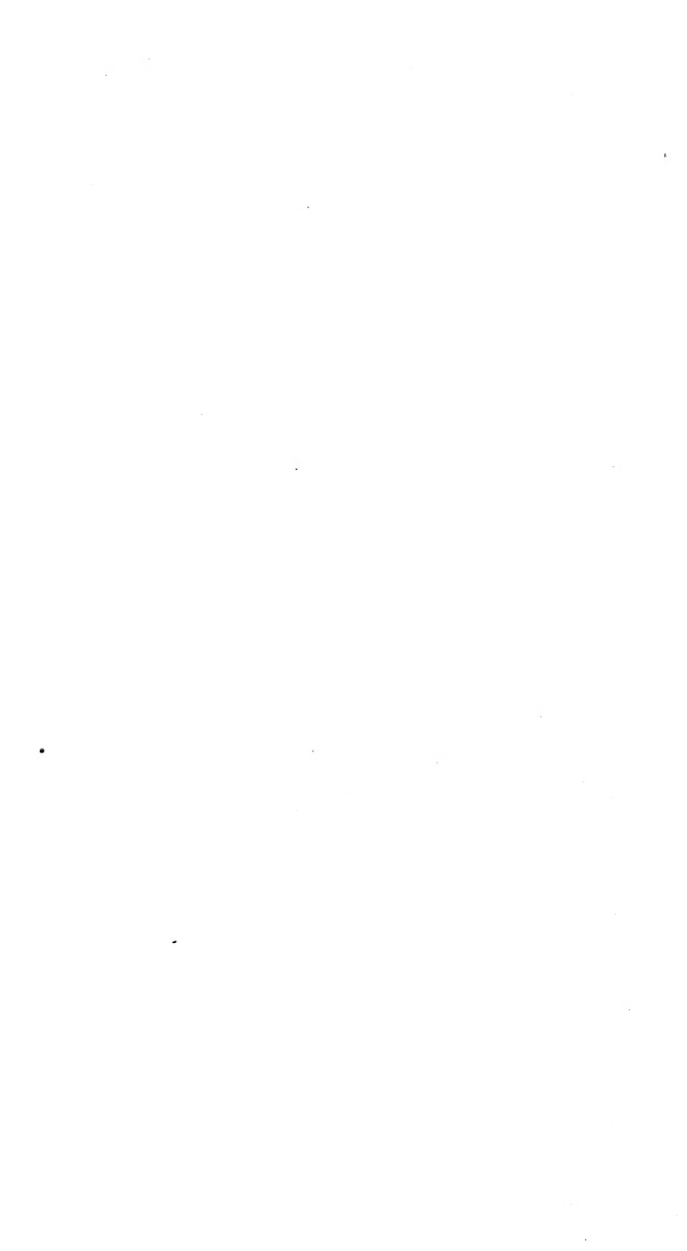
2

16 n.s.





*Cervus canadensis* Lin. The Elk.







1 *Camelopardalis girafa*. The Giraffe

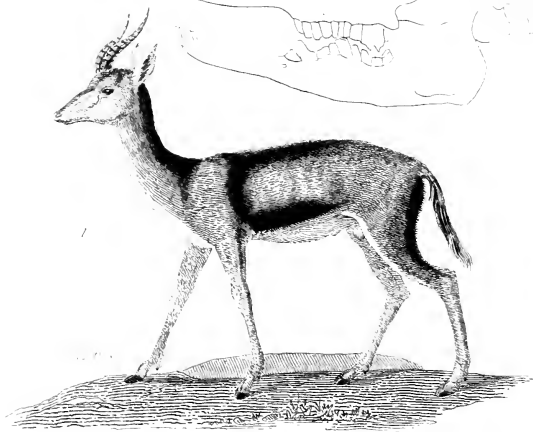
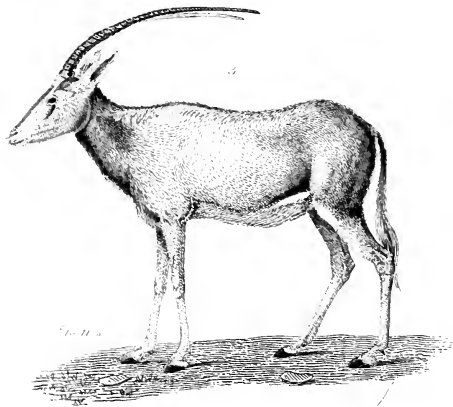




1 *Ovis montanus* Lin. *Var. latirostris* Lin. *The Mountain Goat*

2 *Capra aegagrus* Lin. *The Wild Goat*





1 Antelope cervicapra Linn. 2 Head of the Gazelle  
3 Antelope cervicapra Linn. The gazelle

Antelope cervicapra Linn.

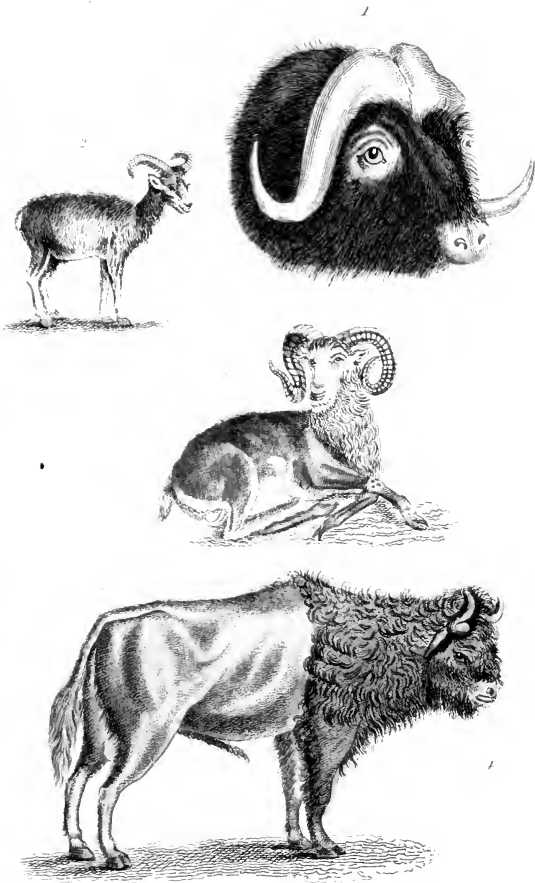




1 *Bos bison* Lin. The American Buffalo, or Bison      2 Head of *Bos taurus* Lin. The common Ox  
3. *Bos bubalus* Lin. The Buffalo

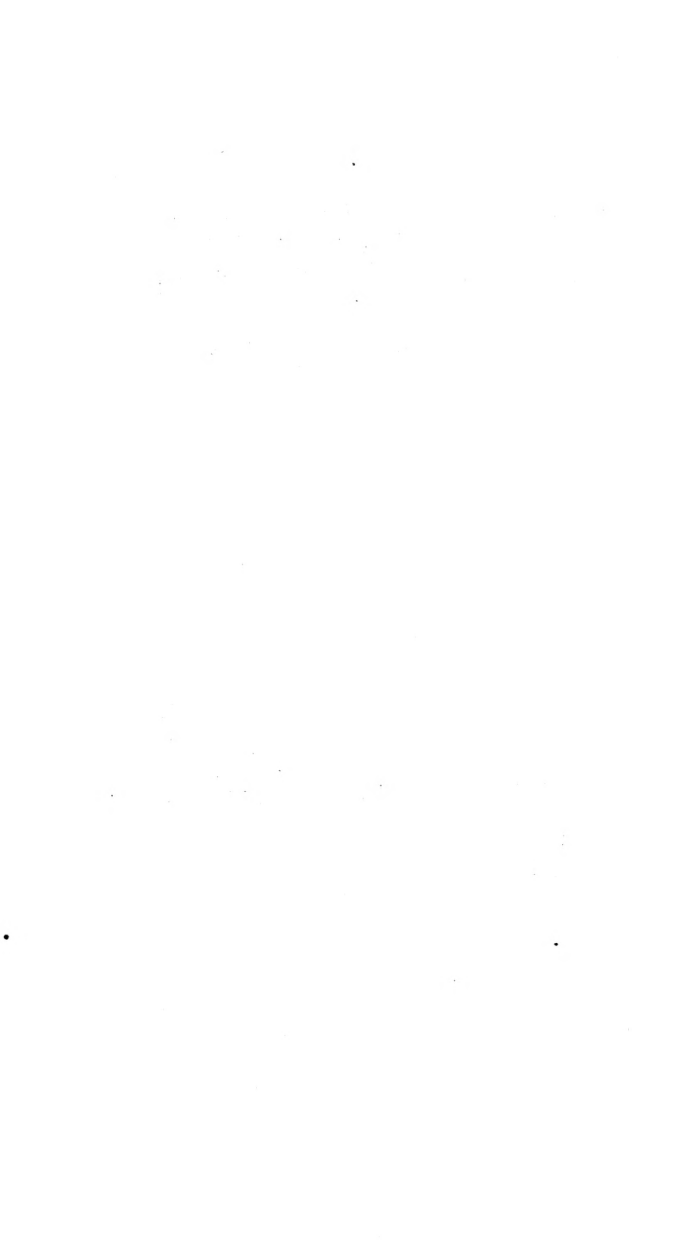




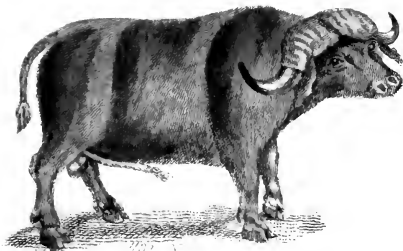


1 Head of the *Bos indicus* Male (for female figure see Mammalia Pl. 59) 2 *Ovis montanus*  
The Indian Wild Goat 3 *Ovis montanus* The Mountain of India 4 *Bos indicus*  
The Indian Buffalo

London: Published by W. & A. G. & Co.



1



2

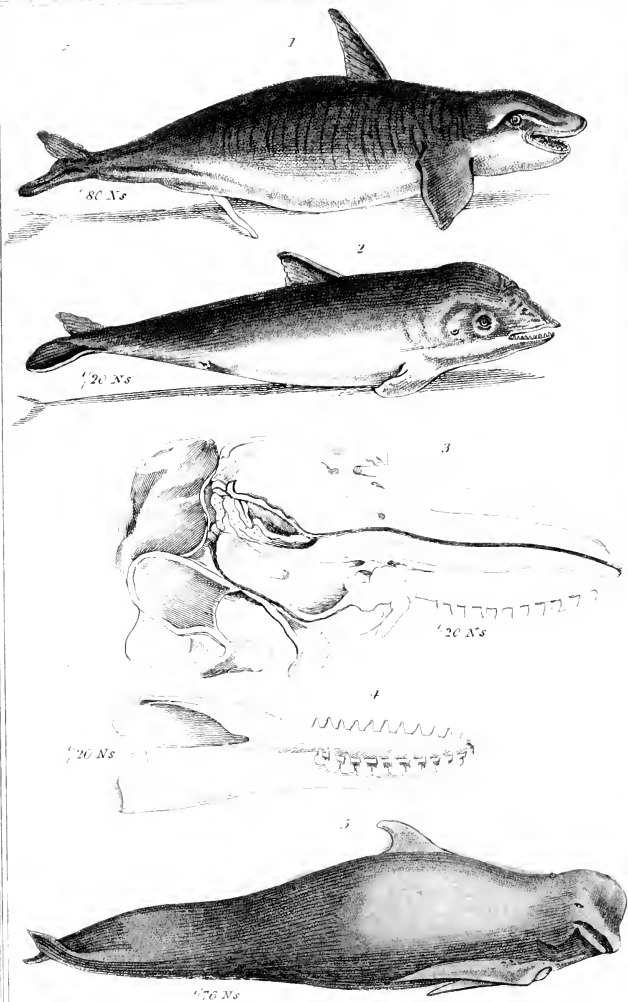


3



1. *Bos caffer* Sparr. The Cape Buffalo      2. *Bos moschatus* Linn. The Musk Ox of America  
3. *Bos grunniens* Pall. The grunting Cow of Tartary





1. *Delphinus orca*. Lin. (The Grampus) 2. *Delphinus capensis*. Bus. The Cape Porpoise 3. The Brain & upper jaw of *Delphinus orca* 4. The lower jaw of the *Delphinus orca*. 5. *Delphinus globiceps*. Bus. The hood-headed Grampus.



3



$\frac{1}{300}$  n. s.

3. a

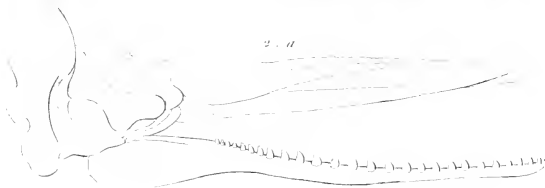


2



$\frac{1}{300}$  n. s.

2. a



1

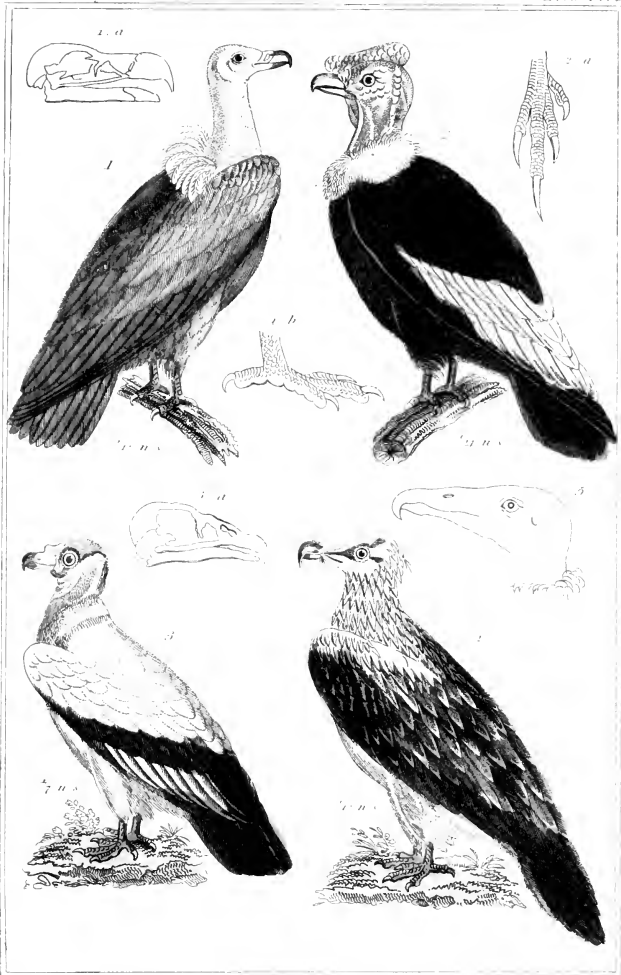


$\frac{1}{66}$  n. s.

1. *Monodon monoceros*, L. fuv. 'The Narwhal' 2. *Physeter macrocephalus*, Shaw, fuv. 'The Cachalet or Spermoceti Whale' 3. *Balaena mysticetus*, L. fuv. 'The great Greenland or Common Whale'

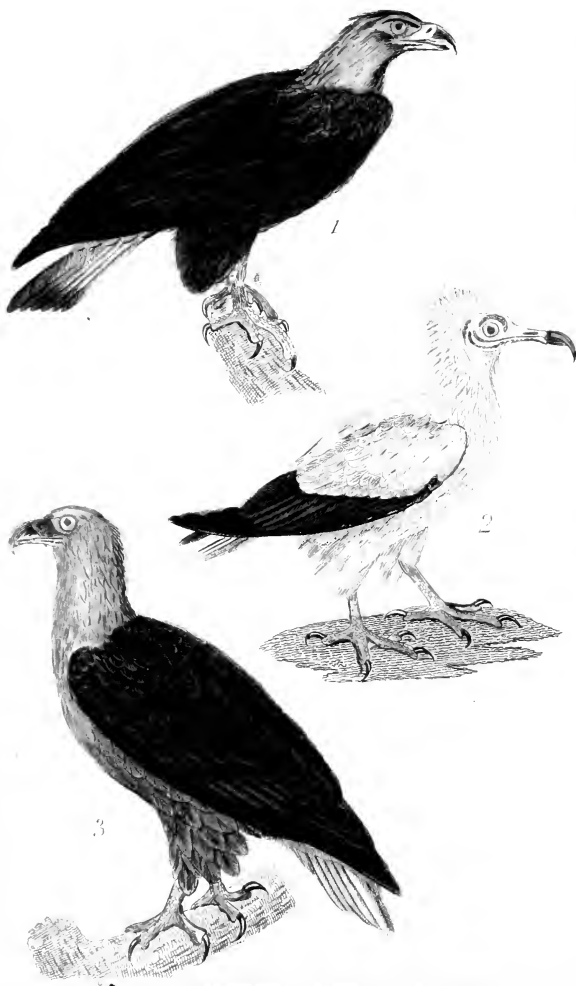






1 *Vultur indus* (iv) *The Indian Vulture* 2 *Sarcocamptus oxyphus* (iv) *The slender eyed vulture of the Andes* 3 *Sarcocamptus papa* (iv) *The King of the Vulture's* 4 *Gypaetos barbatus* (iv) *The lambs Vulture* 5 *Head of the Cathartes aura* (iv) *The Turkey Buzzard*





1 *Falco Fulvis* Linn. (The Common Eagle.) 2 *Neophron Pteroptera* Sav. 3 *Falco Ossifragus* Gm.  
The Ossifragus.





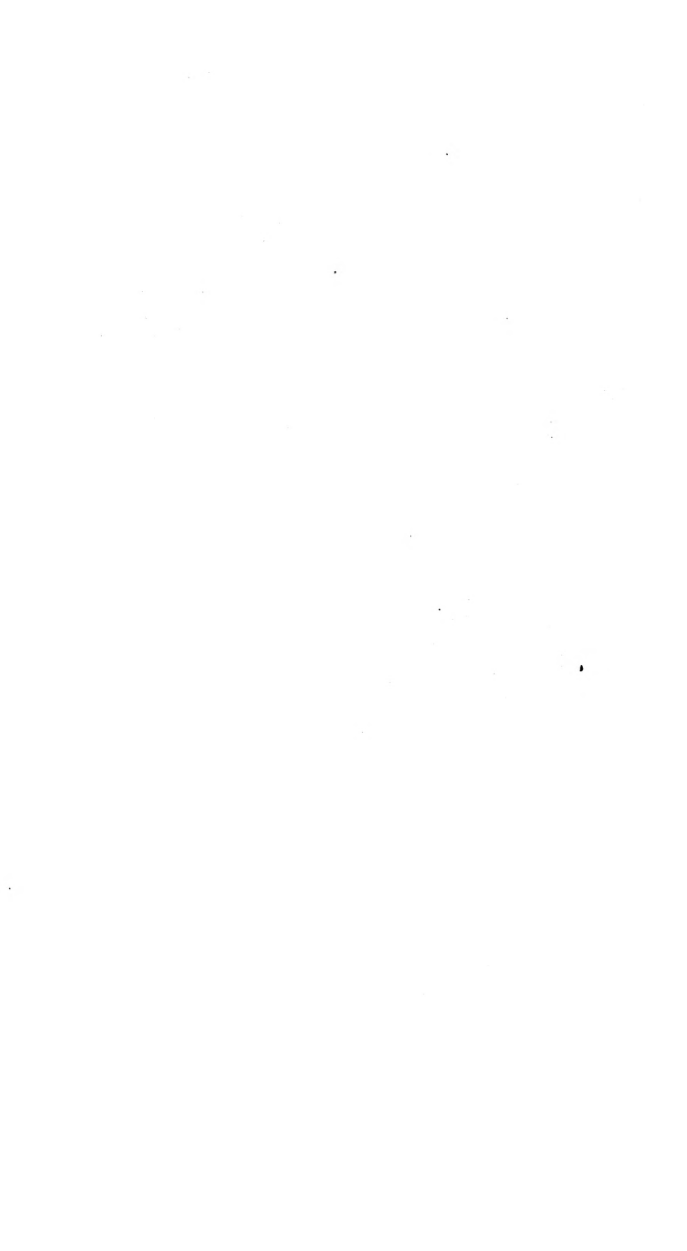
*Three species of birds of prey. 1. A dark falcon with a white face and chest. 2. A light hawk with dark wingtips. 3. A dark hawk with a white face and chest. All from the New Holland.*

*Richard's Kingdon*

*Richard's Kingdon*





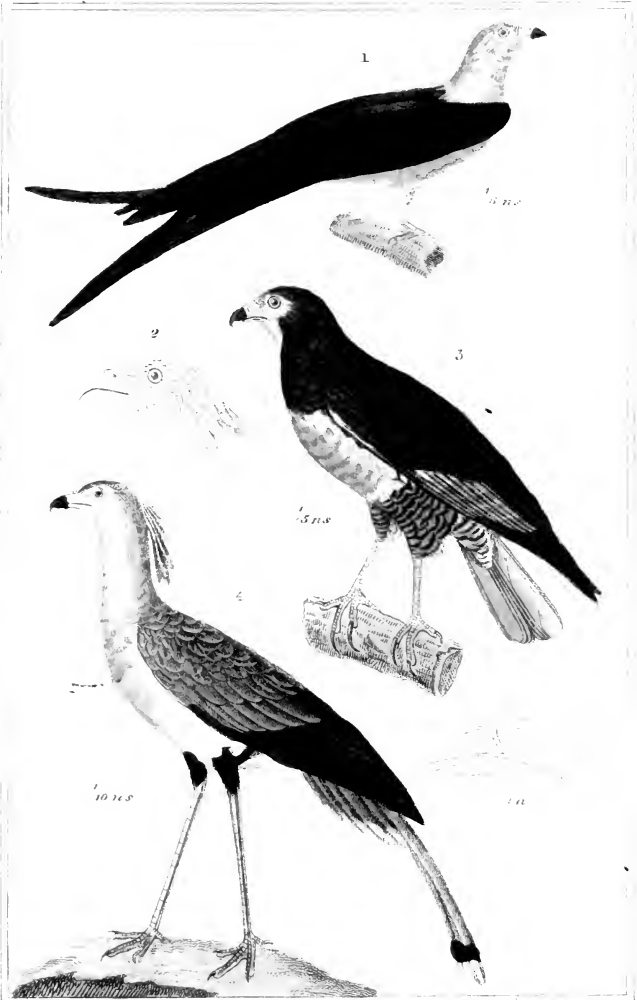






1 *Falco parisiaticus* Lath. 2 *Falco japonicus* Tem. 3 *Falco occipitalis* Paud.





1. *Milvus forficatus* (The Fork-tailed Kite) 2. Head of the *Vernix cristata* The crested Honey buzzard of Java.  
3. *Buteo jacksoni* (The Rouen or Jackal buzzard) 1. *Serpentarius cristatus* The crested Serpentary or snake-eater

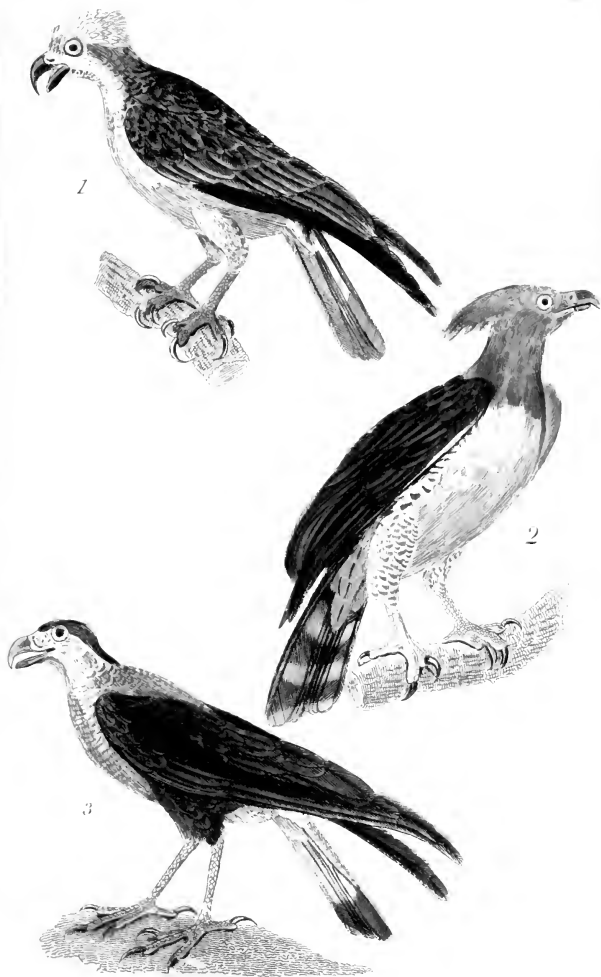




1 *Falco vespertinus* Temm. The Lesser Buzzard of Java 2 *Falco pennsylvanicus* Temm. The American Sparrow Hawk 3 *Falco albicollis* Vieill. The White-tailed Buzzard

London: G. B. Whittaker & Co., Old Bailey





1 *Falco Habertus* 1. *The Osprey* 2 *Harpia Ferox* *The American Harpy* 3 *Caracara Vulgaris* *The Common Caracara*







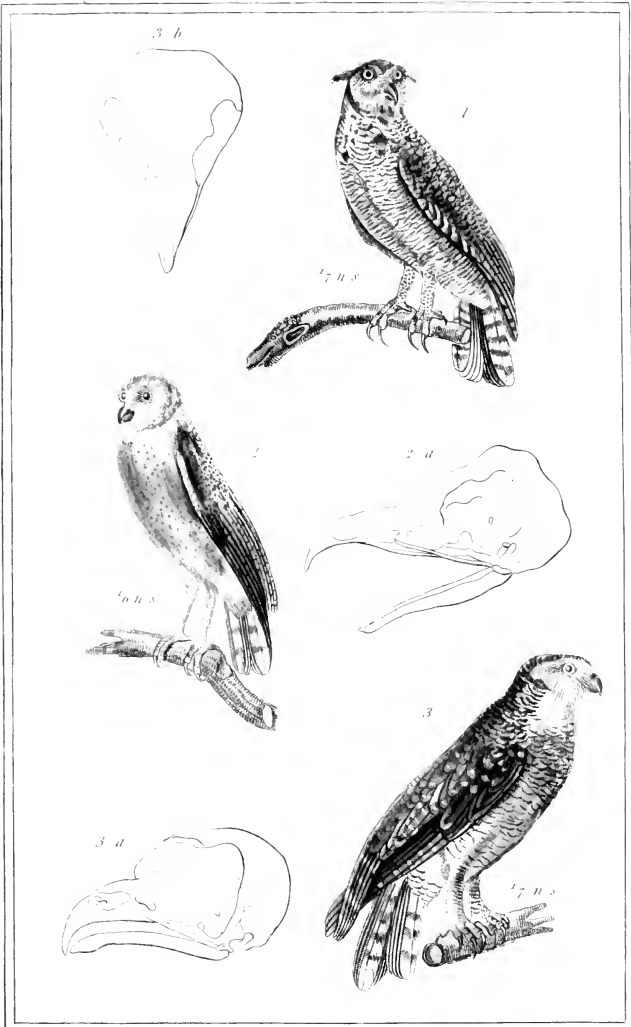
*N. Harpagon Macgill & Elliott. The Great Horned Owl. View of the Head and Part of the Body. 1851. 5.*  
*Falco astur Linn. The Small Falcon. 1851. 6.*





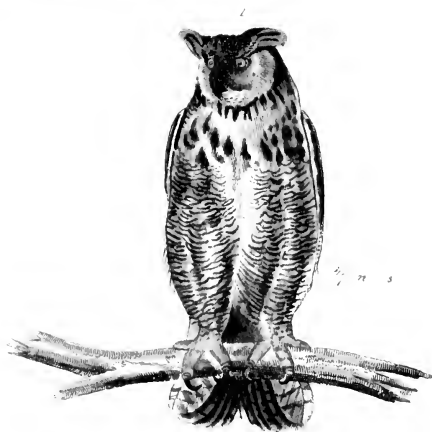
*1. Falco ... 2. Owl ... 3. Owl ...*





1 *Otus macrorhynchus* Tem. The large beaked Owl. 2 *Strix flammea* L. The Ominous Screech Owl.  
3 *Syrnium pagodarum* Tem. The Village Owl.





- 1 Bubo virginianus (Great Horned Owl)  
 2 Noctua (Nocturnal Owl)  
 3 Scops asio (Screech Owl)



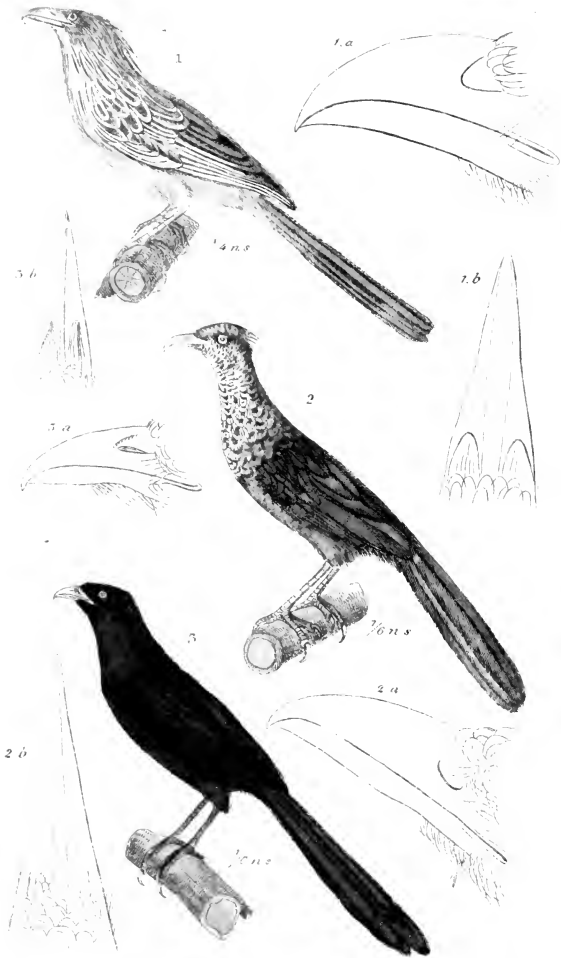




1 *Edolus (entellus)* (Linnæus Shaw) (The Malabar Shrike)  
 2 *Phybura (cassini)* (The Brazilian Yellow Bull)

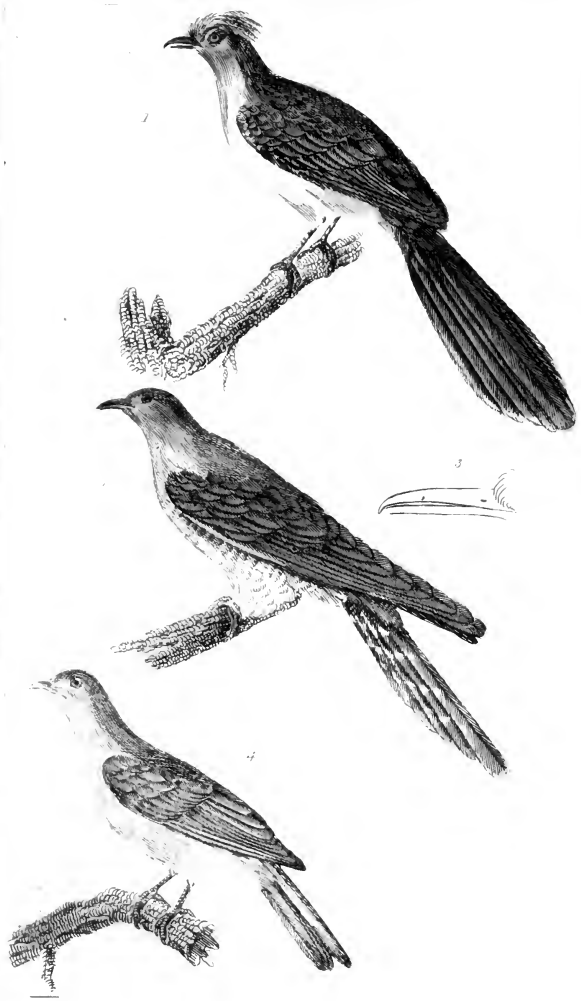
1 2 n 1 2 a





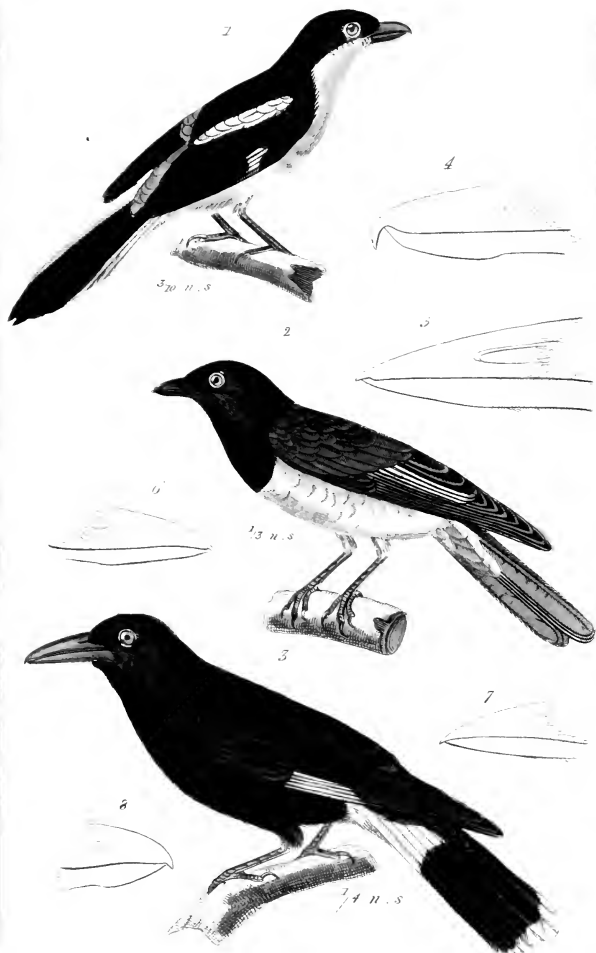
1 *Cuculus quira* (The spotted Cuckoo) 2 *Coccyzus Geoffroyi* (The corvus Cuckoo)  
3 *Centropus murebiki* (The black-nailed Cuckoo)





1 *Coccyzus cristatus* Linn. The Crows. 2 *Turdus* Linn. The Crows. 3 The Bill of the *Santothra* *actula* *vicilla* Linn. The Crows.





1. *the collared Shrike* 2. *Graculus melanops*, the dark eyed Chocuari 3. Baunta Sore  
Island Water 4. *Bill of the Yellow Butcher bird* 5. *Bill of the Green Bird of Paradise*  
6. *Butcher Bird* 7. *the Bill of the Swallow winged Shrike* 8. *Bill of the Magpie Shrike*.







2



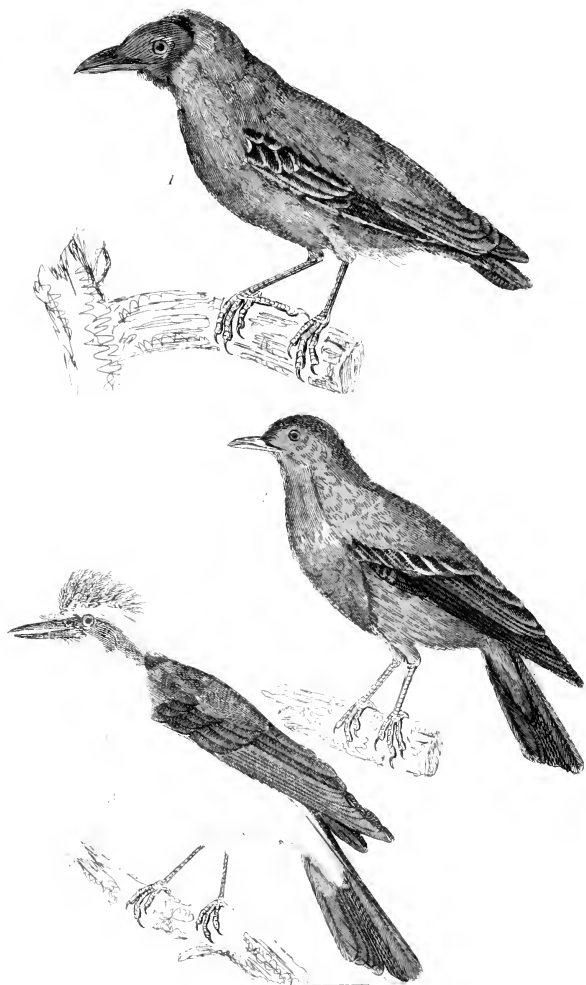
1 Ocypterus Alborittalis *Vall* 2 Lanius Pinnatus *Shaw* 3 Barila Anaphoresis *Zinn*





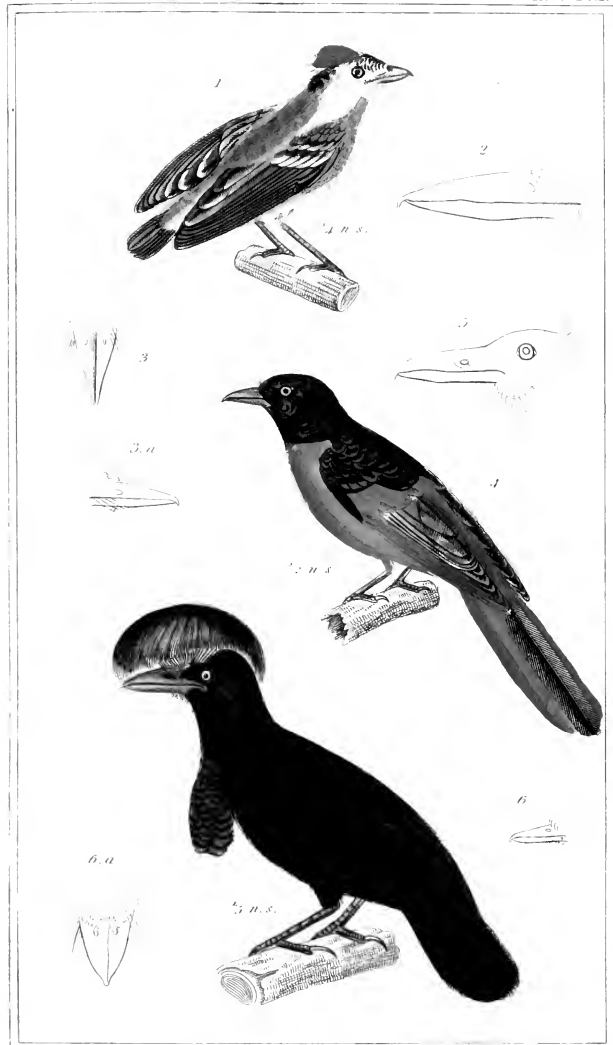
1. *Lanius Pitangua* (Gmel) 2. *Bethylus picatus* (Laf) 3. *Lanius Cayanus* (Gmel)





1. *Gymnocephalus cupreus* L. 2. *Ampelis cotinga* L. 3. *Muscivora parisi* Gm.  
The Flycatcher

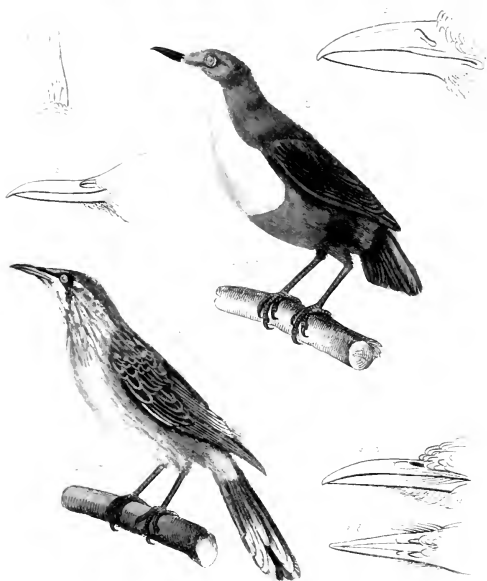




1 *Pardalotus cristatus* Vieill. The ornamented Pardalote. 2 Bill of the *Lanius borealis* Tem. The Crested. 3 Bill of *Muscipeta coronata* Tem. The Crested Muscivora. 4 *Muscivora minuta* Tem. The small Flycatcher. 5. a. a. 6 *C. miniocephalus calvus* Tem. The Bald Tyrant. 6 Bill of the *Platyrrhinus carolinensis* Tem. The Black-headed Flycatcher. 7 *Cephalopterus ornatus* Vieill. The ornamented Cephalopterus.







1. *Myiothera* *sp.* *from the upper part of the Amazon*
2. *Cathartes* *sp.* *from the Amazon River*
3. *Phalacrocorax* *sp.* *from the Amazon River*



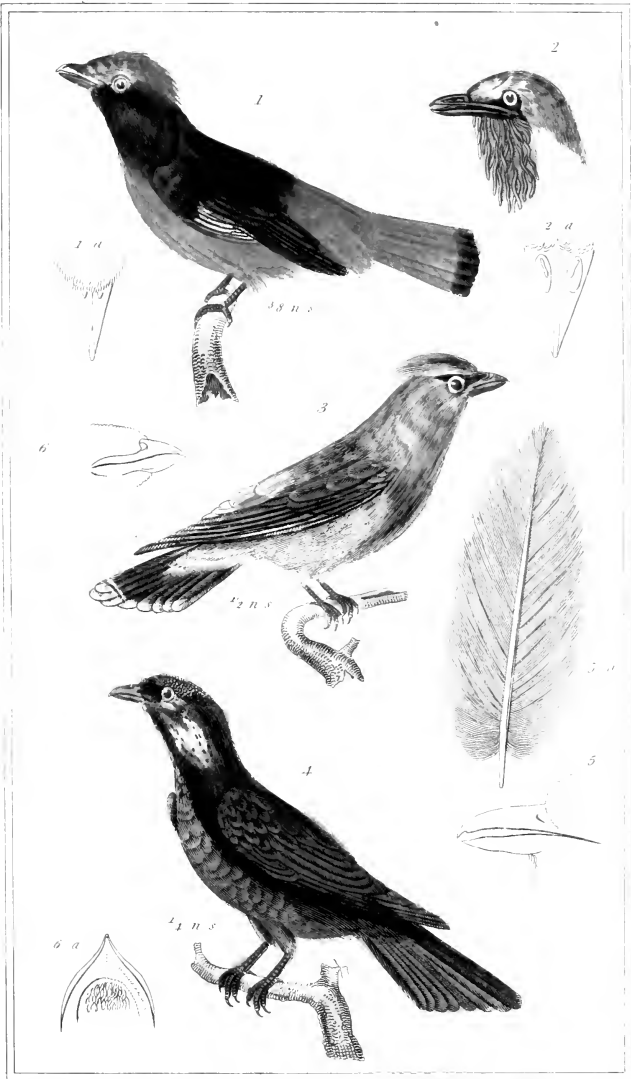
12 H. S.



*Struthio camelus* Ostrich of the Eastern Continent.

Drawn from a drawing by J. G. Shaw.





1. *Ampeelis carneae* The Butcher Chatterer 2 head of the *Procnias averano* The variegated Chatterer  
 3. *Bombycilla cedrorum* The Chatterer of the cedars 4. *Gymnoderes nubicollis* The bare necked Chatterer  
 5. Spiny rump-feather & Bill of *Ceblepyris canus* The African Crown bird 6 Bill of the *Tersina hirundinacea*  
 The Swallow Crown bird

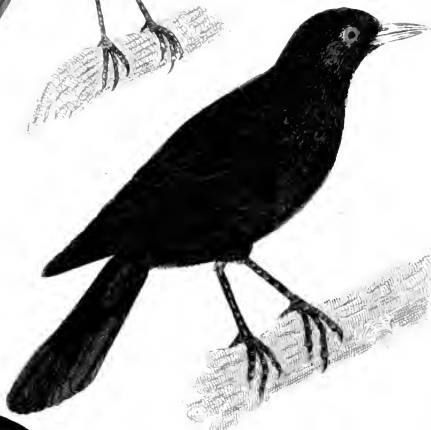




1. *Tanagra mexicana* Gm. 2. *Ampelis garrulus* L. The Bohemian Chatterer. 3. *Tardus palmarum* Gm.







1. *Tanagra magna*. 2. *Ph. brevicornis*. 3. *Turdus merula*. 4. *Ph. brevicornis*.

5. *Tanagra juncidis*.





12



3



*Corvus corax* *Corvus corax* *Corvus corax* *Corvus corax*

*Corvus corax* *Corvus corax*



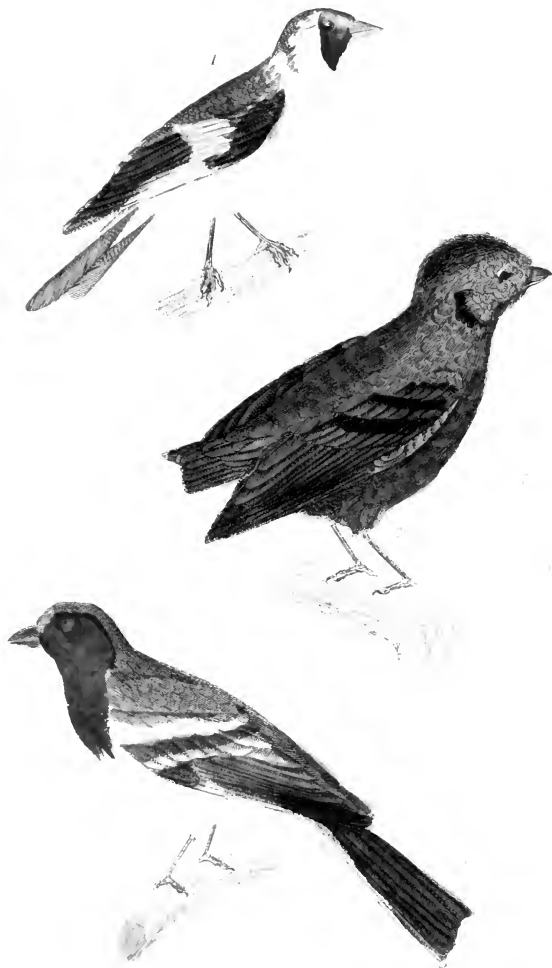
7

10



1 *Eurylaimus corydon* Temm. 2 *Pipra pipra* (Linn.) 3 *Manakin*. 4 *Emberiza citrinella* Linn. 5 *Yellow Bunting*

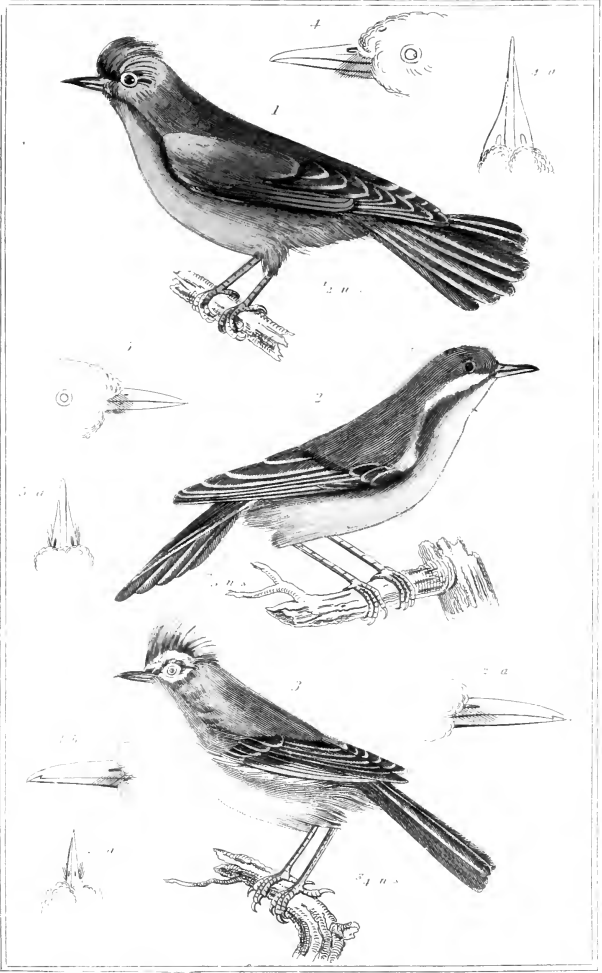




1 *Fringilla carduelis* Linn. The Common Goldfinch. 2 *Rupicola Viridis* Temm. The Green Lark of the Rock. 3 *Fringilla montifringilla* Linn. The Mountain Finch.



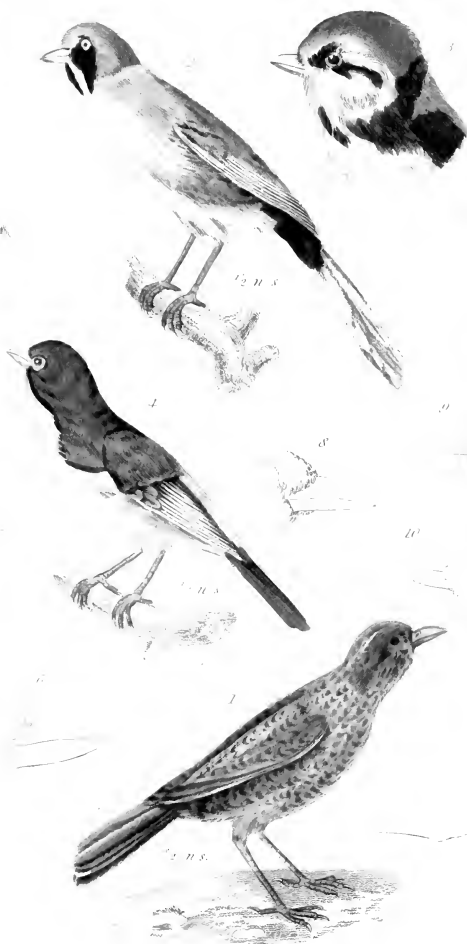




1 *Ficedula sialis*. The American stone chat. 2. *Curruca subalpina*. The Curruca of the lower Alps. 3. *Regulus ignicapillus*. 4. Bill of the *Accentor alpinus* Bechst. The center of the Alps. 5. Bill of the *Saxicola rubicola* Lin. The Mill-chapper.

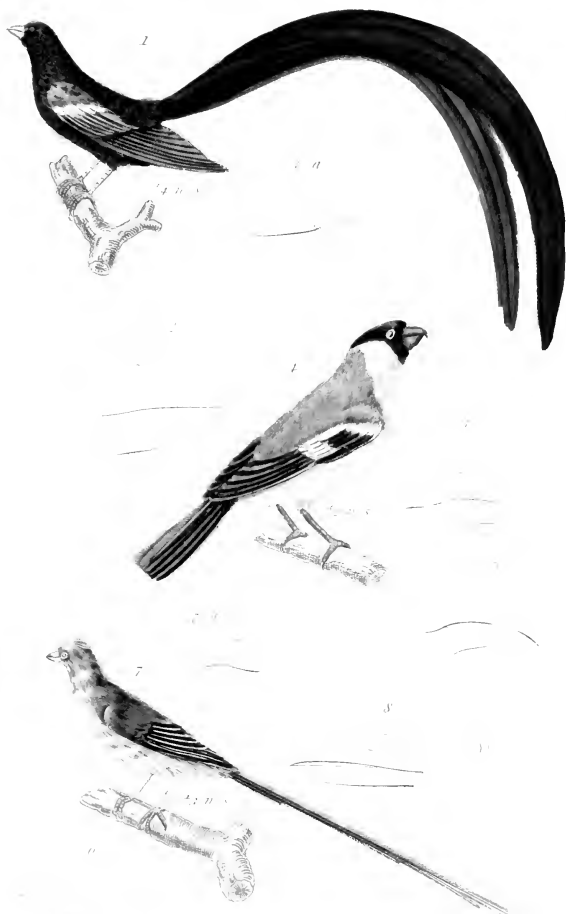
London: G. Henderson 2 Old Bailey.





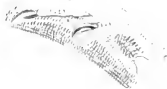
1. *Mlanda aprata*, Vieill. The Bateleuse. 2. *Parus biarmicus*, The Bearded Titmouse. 3. Head of the *Parus ceruleus*, The Blue Titmouse. 4. *Perigita ciris*, The Lark Hunting. 5. Bill of the *Remiz*, The Pendulous Titmouse. 6. Bill of the *Mlanda calandra*, The Calander Lark. 7. Bill of the *Emberiza curtus*, The Girl Hunting. 8. Bill of the *Tisserin jaune*, The Yellow Weaver. 9. Bill of the *Fringilla montifringilla*, The Mountain Finch. 10. Bill of the *Lanaria canabina*, The Lanet.





1 *Vidua lomanioides* Lincl. The long-tailed Widow. 2 Bill of the *Ptylus canadensis*. The Canadian Grosbeak. 3 *Ptychola yidpays* Bosc. The cross-bill. 4 Bill of the *Loxia curvirostra* Linn. The cross-bill. 5 Bill of the *Corythus*. 6 Bill of the *Colinus*. 7 *Colinus*. 8 Bill of the *Buphaga*.





1 *Enkibes javanicus* Vieill. The Java crow. 2 *Corvus*,  
3 *Pyrrhocorax alpinus*. The Alpine crow. 4 *Corvus*, 5 *Amorpha*.

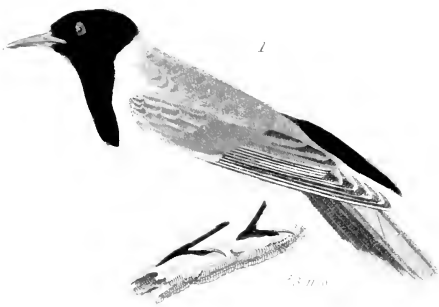






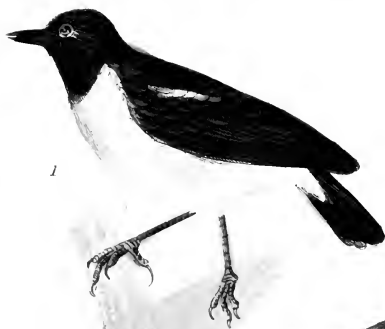
*Anabates superciliosus* The Thrush-billed Nuthatch. 2. *Synallaxis* *pyrrhuloxia* The Red-eyed Vireo.  
*Synallaxis* *pyrrhuloxia* The European Nuthatch. 3. *Polioptila caerulea* The Blue-winged Teal.





1. *Ornithus* ...  
2. *Manura* ...

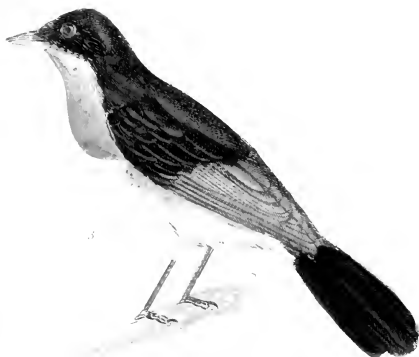




1



2



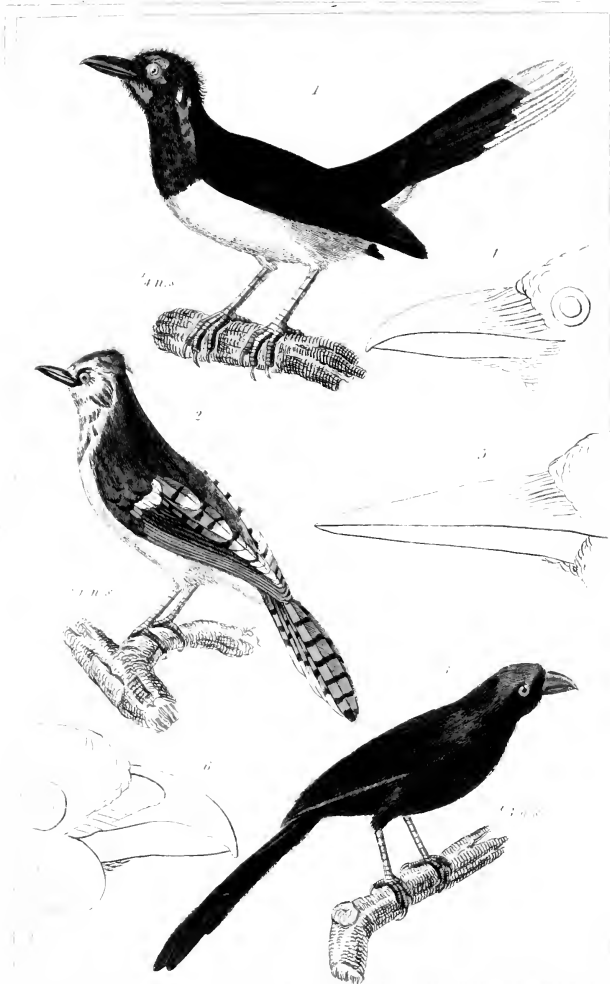
1. Motacilla alba. The Wheat ear 2. Motacilla luscinioides. The Nightingale 3. Sylvia subalpina Bonelli.





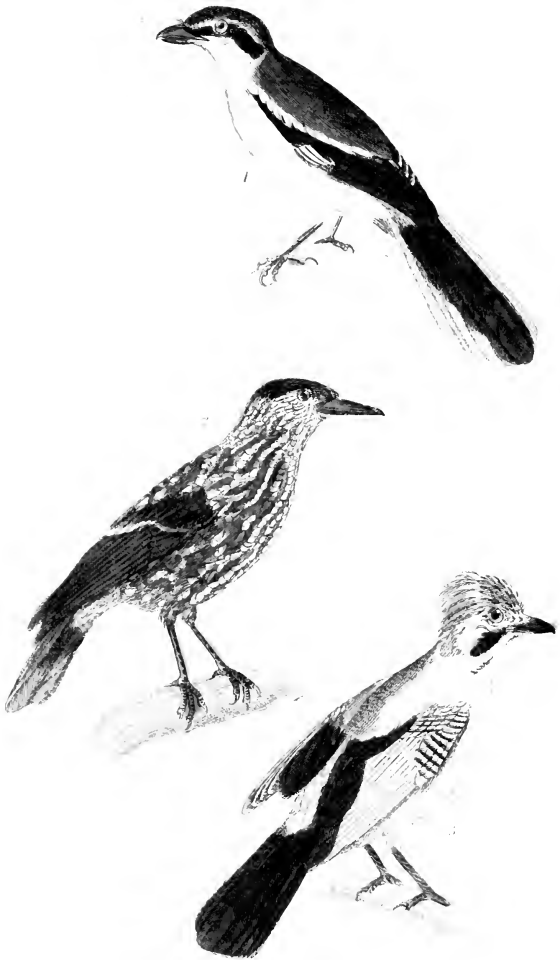






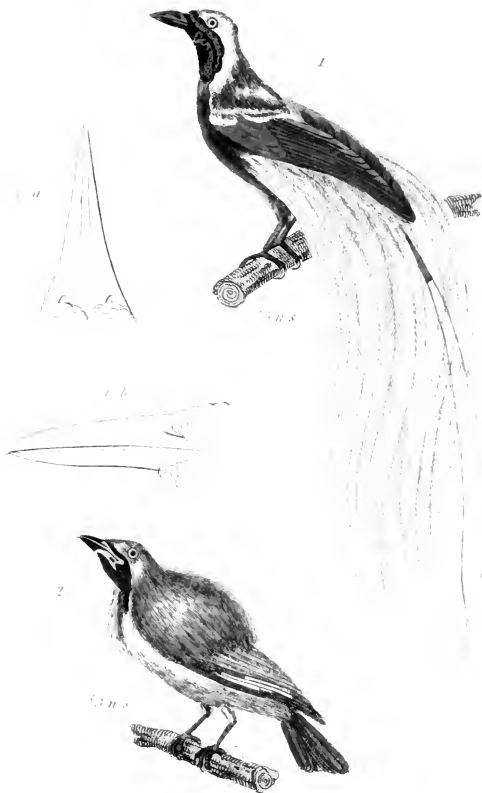
1 *Pica eryseps*. The crested Jay. 2 *Garrulus cristatus*. The Blue Jay or Crested Jay. 3 *Tenna variabilis*. The variable Pie. 4 *Corvus splendens*. Bill of the splendid Jay. 5 *Cayocatactes vulgaris*. Bill of the Common Ant-eater. 6 *Glaucopsis cinerea*. The Ash coloured Glaucopsis.





1. *Corvus corax*, Linn. The Northern Raven. 2. *Corvus corax*, Linn. The Common Magpie. 3. *Corvus garrulus*, Linn. The Jay of Europe.

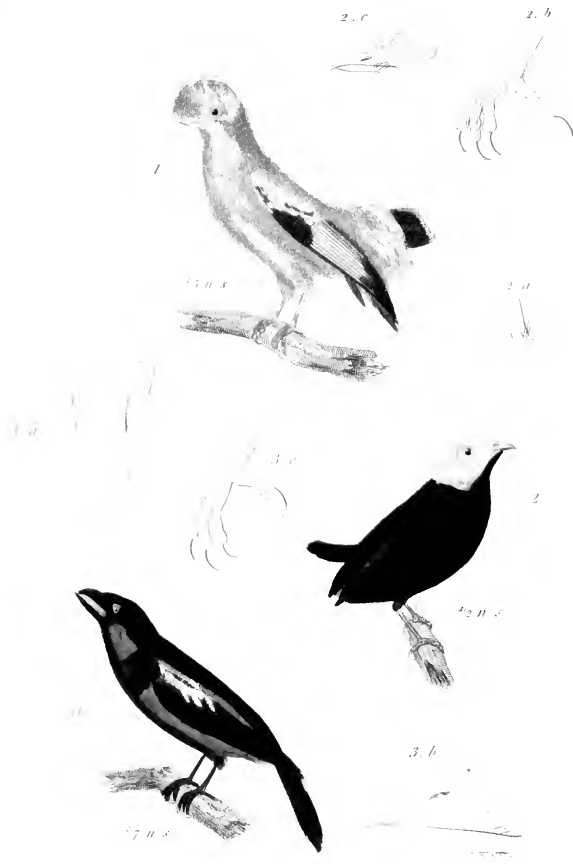




1. *Paradisaea apoda*. Great Bird of Paradise. also called the Emerald Bird of Paradise.

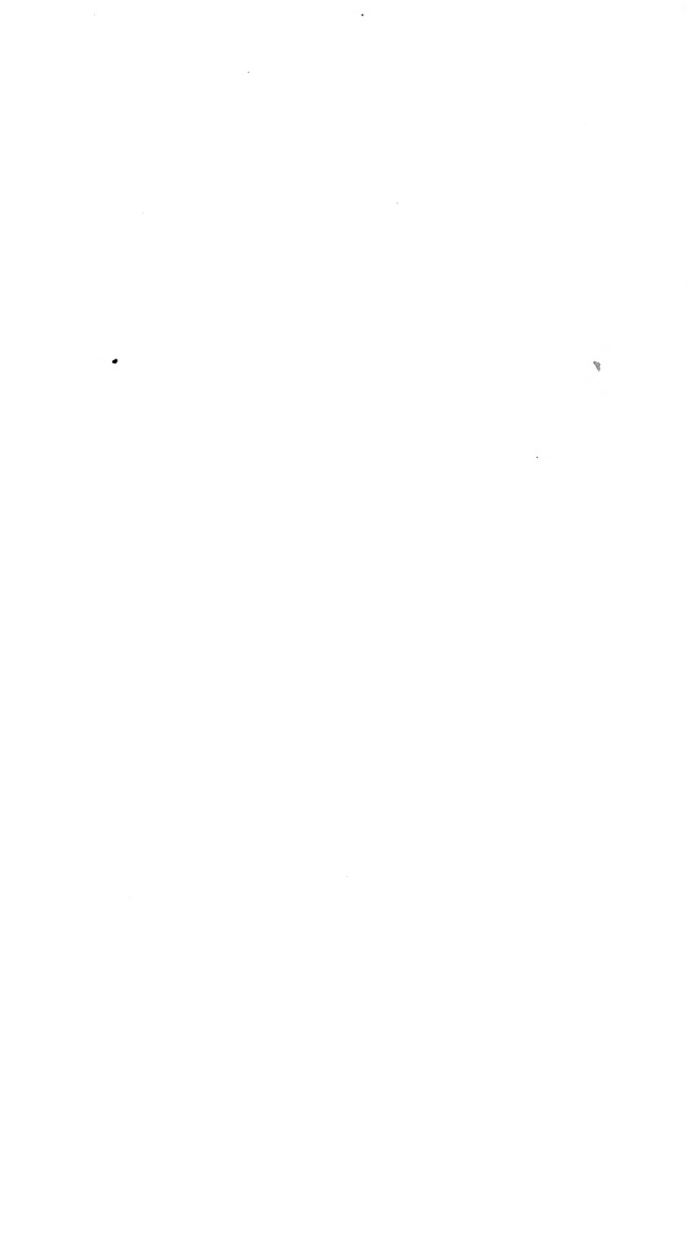
2. *Paradisaea amoenus*. Golden-breasted Bird of Paradise.



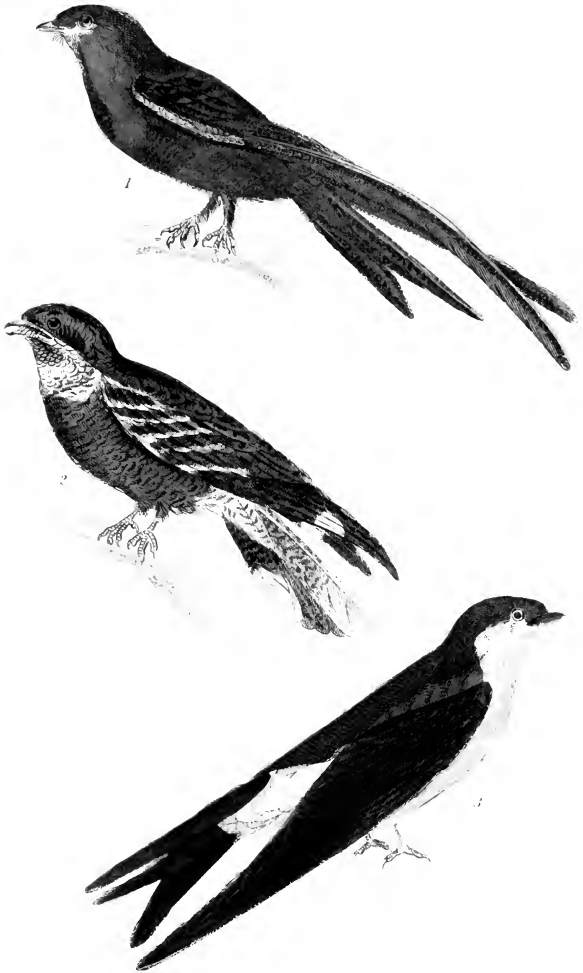


1 *Rupicola vulgatus* The common rock-pigeon 2 *Ripia cincta phaeo* The Yellow-headed Manakin

3 *EuryLanius macrochynchus* The Great Horned Owl







1. *Euphonia carolinensis* Linn. The Martinet. 2. *Caprimulgus vociferus* Linn. The Nighthawk. 3. *Hirundo urbana* Linn. The Swallow.





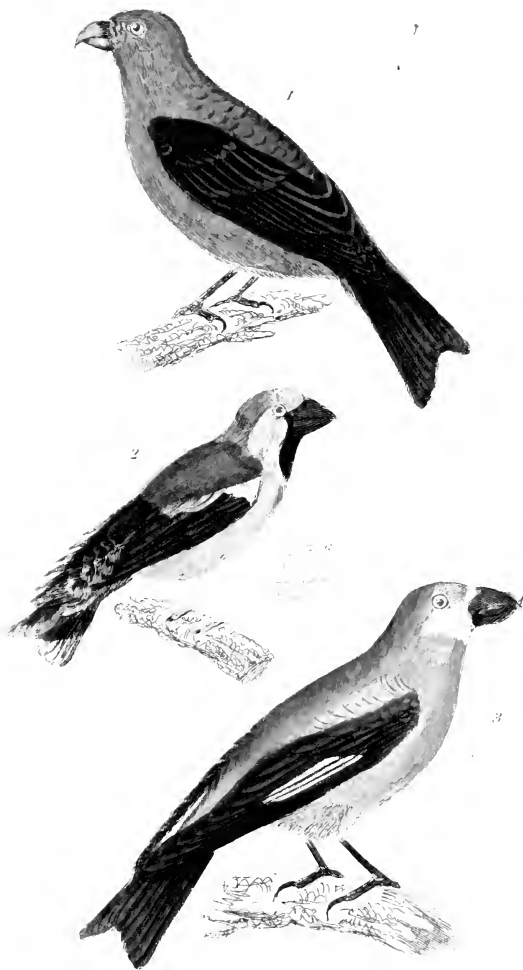
1. *Merops amictus* Tem. The green Bee-eater  
2. *Prionites brasiliensis* Illig. The Brazilian Saw-bill





1. *Coracias benadensis* (Linn.) The Benad Bird
2. *Colinus auratus* (Linn.) The Auratus Pheasant





1. *Loxia emchater* Lin. The Pine Grosbeak. 2. *Loxia curvirostris* Lin. The common Grosbeak.  
3. *Loxia curvirostris* Lin. The Grosbeak.





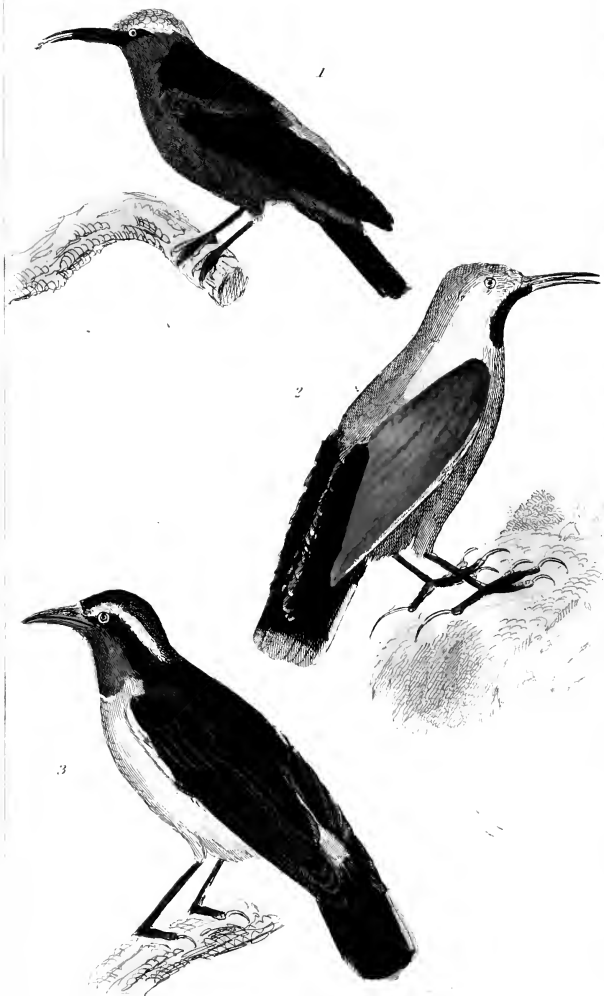






1 *Upupa superba* Lath. *The Splendid Puff* . 2. *Dendrocolaptes communis* Gm. *The Woodpecker*  
3. *Dendrocolaptes procurvus* Temm

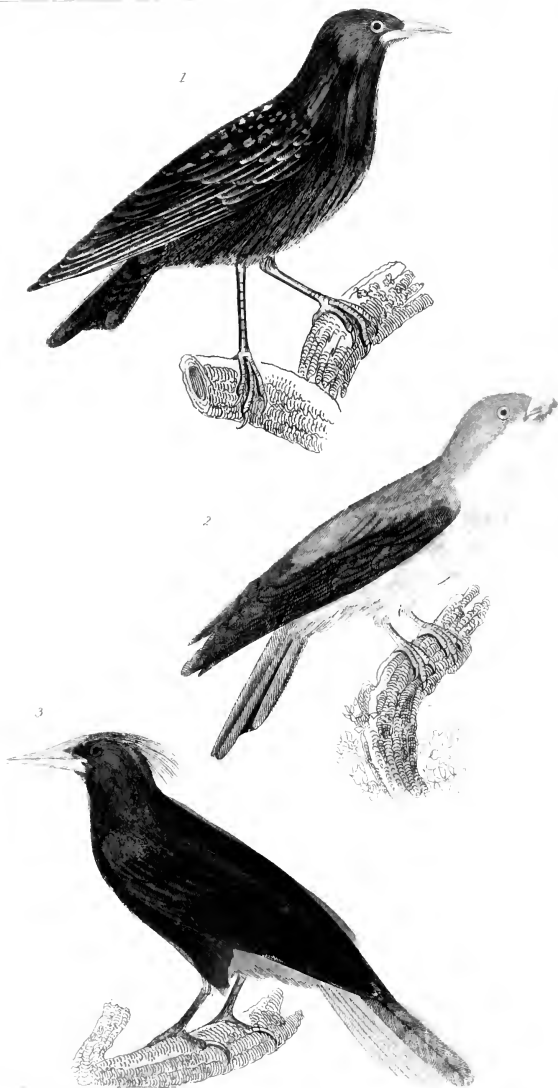




1 *Certhia cyana* Vill. 2 *Certhia muraria* Lin. The Wall Creeper.  
3 *Certhia flavecola*, Gm.

London, G. Henderson, 2 Phil. Bailey

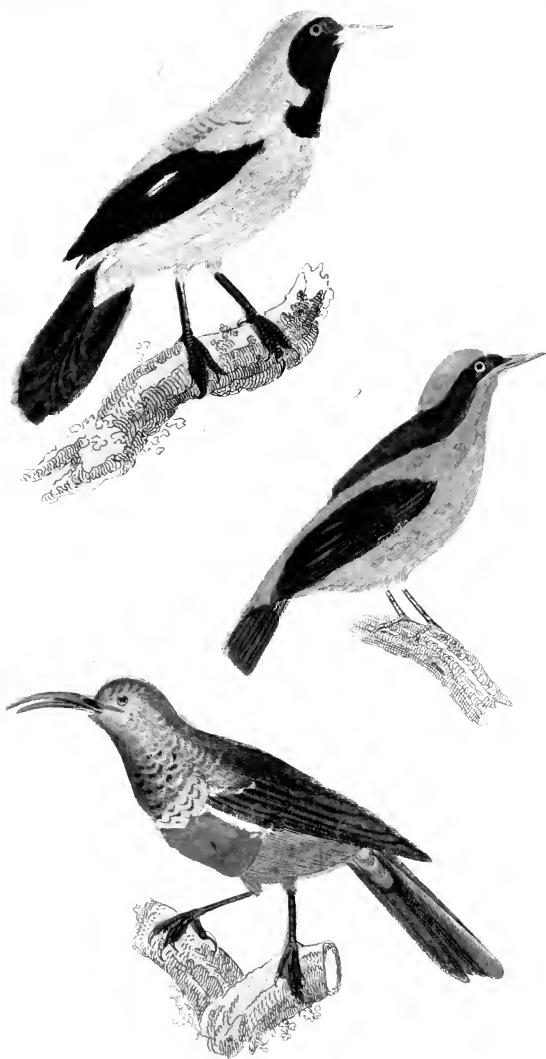




1 *Sturnus vulgaris* L. The common starling. 2 *Charis Madagascariensis* Fr. Madagascan starling. 3 *Sturnus vulgaris* L. The common starling.





*Icamoeru* Guér. & *Melastella* Ceyana Guér. The Pupa 3. Lengths 30-40 joints.





1. *Anthracoceros* 2. *Anthracoceros* 3. *Anthracoceros* 4. *Anthracoceros* 5. *Anthracoceros*  
*Anthracoceros* 6. *Anthracoceros* 7. *Anthracoceros* 8. *Anthracoceros* 9. *Anthracoceros*  
*Anthracoceros* 10. *Anthracoceros* 11. *Anthracoceros* 12. *Anthracoceros*





1. *Epimachus magnificus* Vieill. The Laysan or African Hoopoe; 2. *Promerops cafer* End. The New Guinea Hoopoe;  
3. *Epimachus magnificus* (The Splendid Epimachus)



1. 6



11. 3



7. 6



1. *Myi. glossus chlorotus* (Lep.) The Black-crowned Parakeet

2. *Przoporus perisoreus* (Vall.) The Black-crowned Parakeet



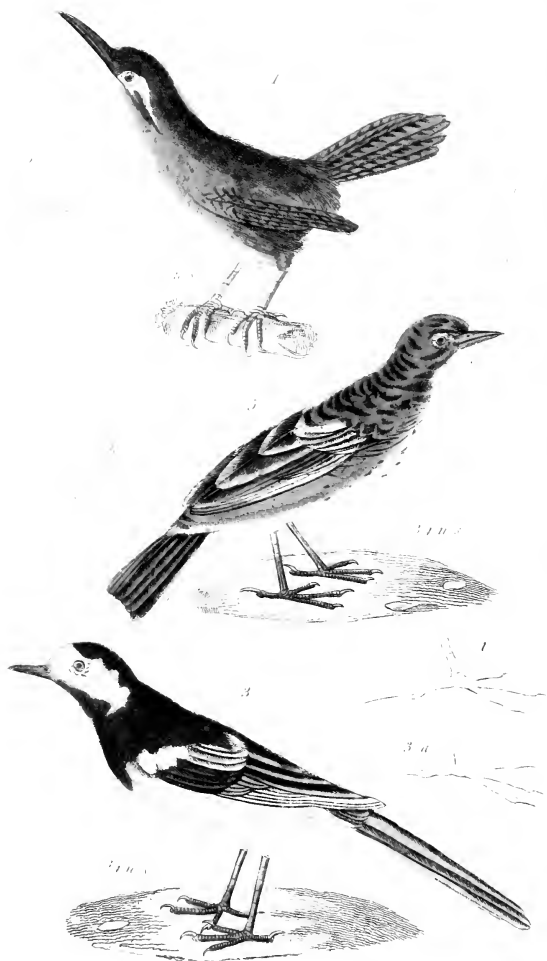




1 *Muscophaga gigantea* Vieill. The gigantic Tropicbird, or the great Phalarope

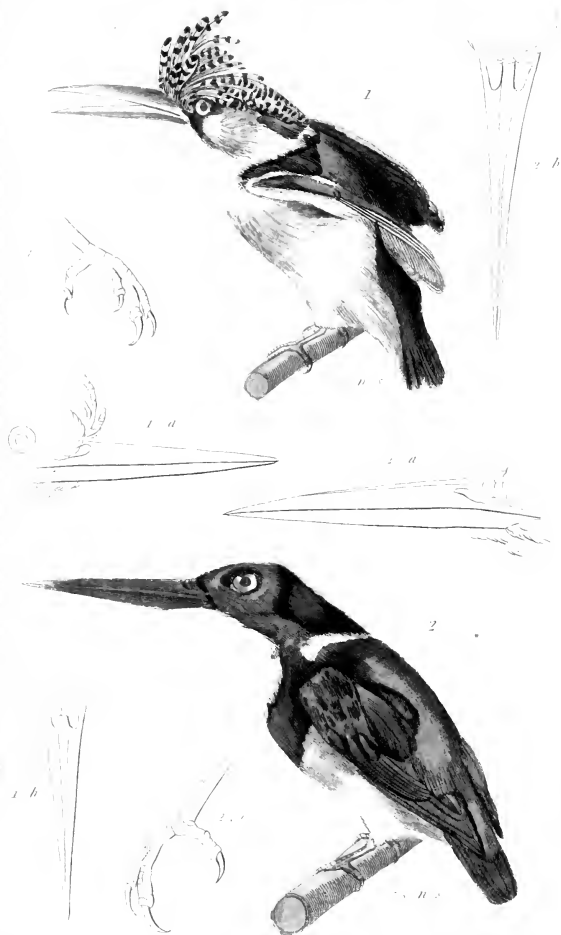
2 *Corythaeus Paulinae* Temm. The Paulina's Frigatebird





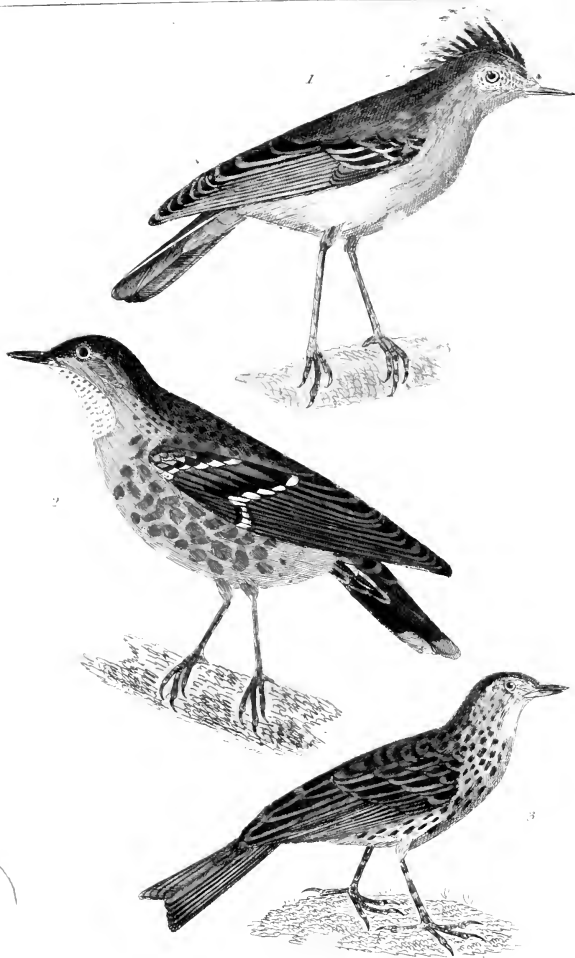
1. *Troglodytes hyemalis*. The European Wren. 2. Bill of *Troglodytes communis*. The Common Wren.  
 3. *Motacilla lugubris*. The lugubrious Wagtail. 4. Foot of *Budytes flava*. The Yellow Wagtail. 5. *Anthus arvensis*. The Tree Pipit.





1 *Alcedo cristata* The crested King-fisher  
2 *Coxix tribrachys* The three-toed King-fisher



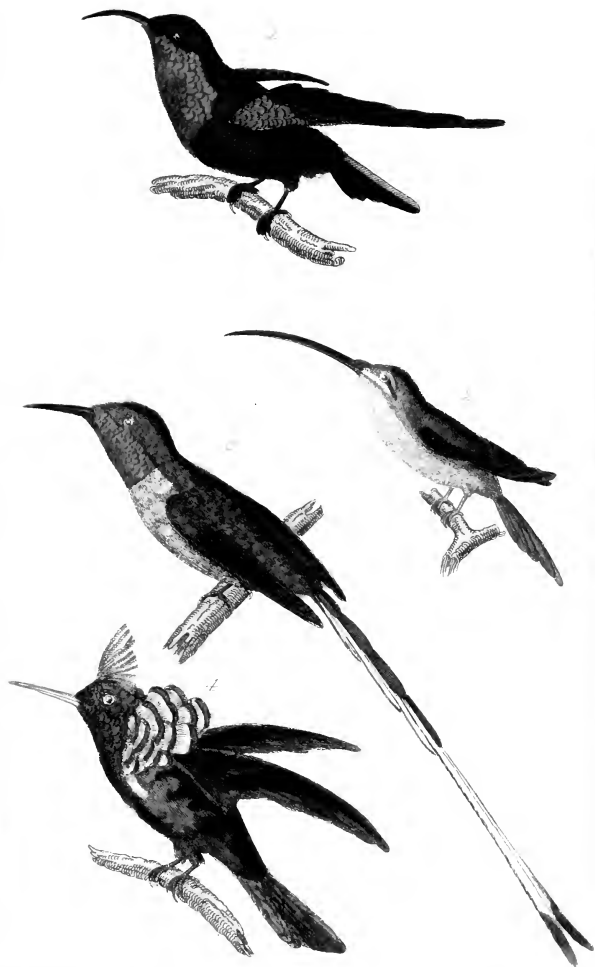


1. *Motacilla regulus* Lin. The Twitelet    2. *Motacilla alpina* Gm. The Alpine Fanvette  
3. *Anthus pratensis* Beck.

London, G. Henderson 'Old Bailey'





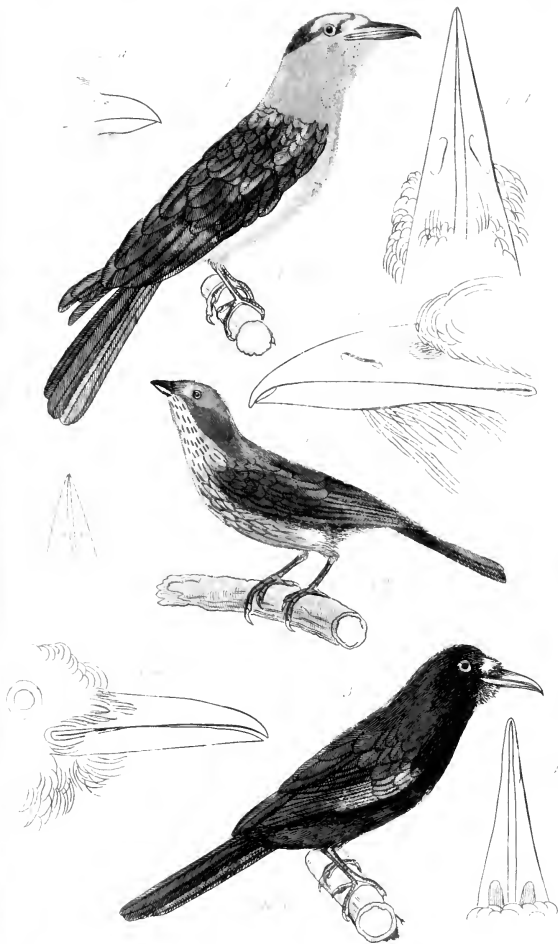


1 *Crochilus granatellus the gurnet* (C. *granatellus*)

5 *Orthorhynchus*

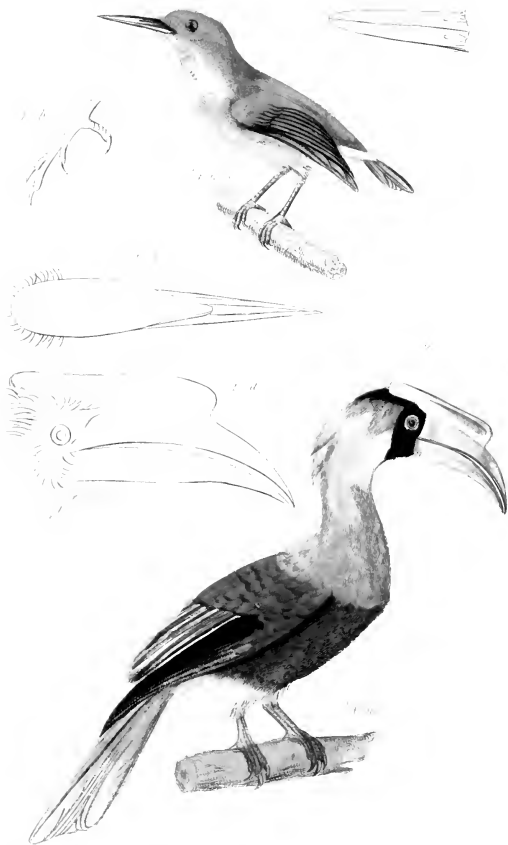
1 *Ortho. Magnificus*





1. *Cypselurus viridis* Vahl. 2. *Indicator variegatus* Lesson. The Variegated Indicator.  
3. *Momocya leucogaster* Gmel.





1 *Todus viridis* The Tody 2 *Buceros hydrocorax* The Hoopoe





1. *Malcoha superciliosa* The Common Maltoka  
 2. *Scythrops australasica* The Australian Scythrops

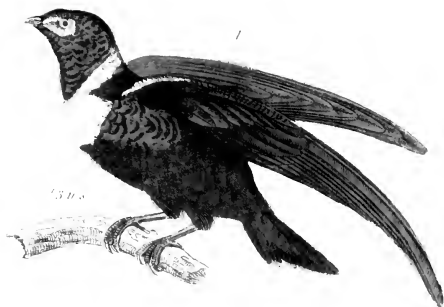






1 *Colaptes auratus* (Aud.) 2 *Colaptes auratus* (Aud.) 3 *Picus chlorurus* (Linn.) The Woodpecker 4 *Picus chlorurus* (Linn.) The Woodpecker 5 *Yungipicus torquatus* (Linn.) The Woodpecker





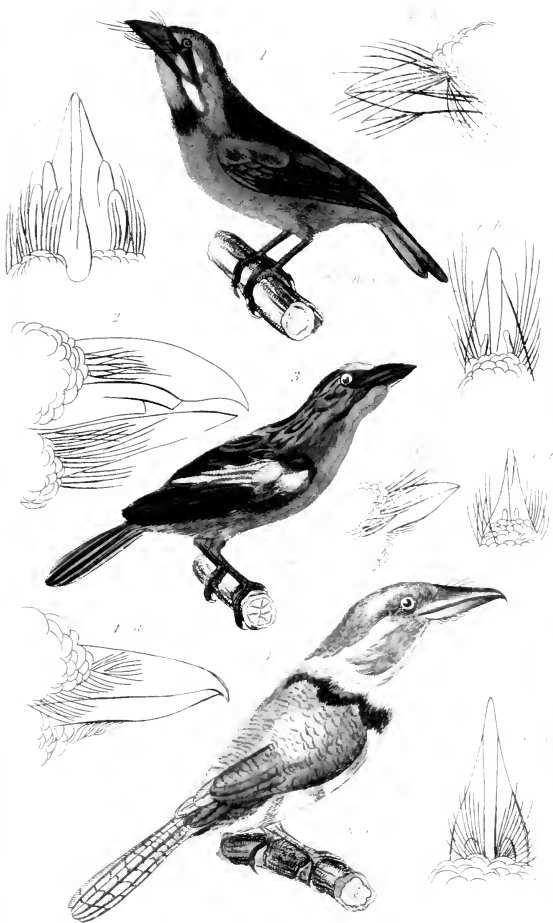
3

2



1 *Hirundo collaris*. The Collared Swallow. 2 *H. vulgaris*. The House Martin. 3 Head and feet of the same species. 4 *Podiceps cornutus*. The Cornu-sucker of Bayre.





1 *Bucco punctatus* Less. Dusky-chinned Warbler. 2 *Bucco the Pogonias* *salicivorus* Linn. The warbler. 3 *Bucco parvus* Barb. Vireo. The Barbican. 4 *Salicivorus* *collaris* The banded warbler.

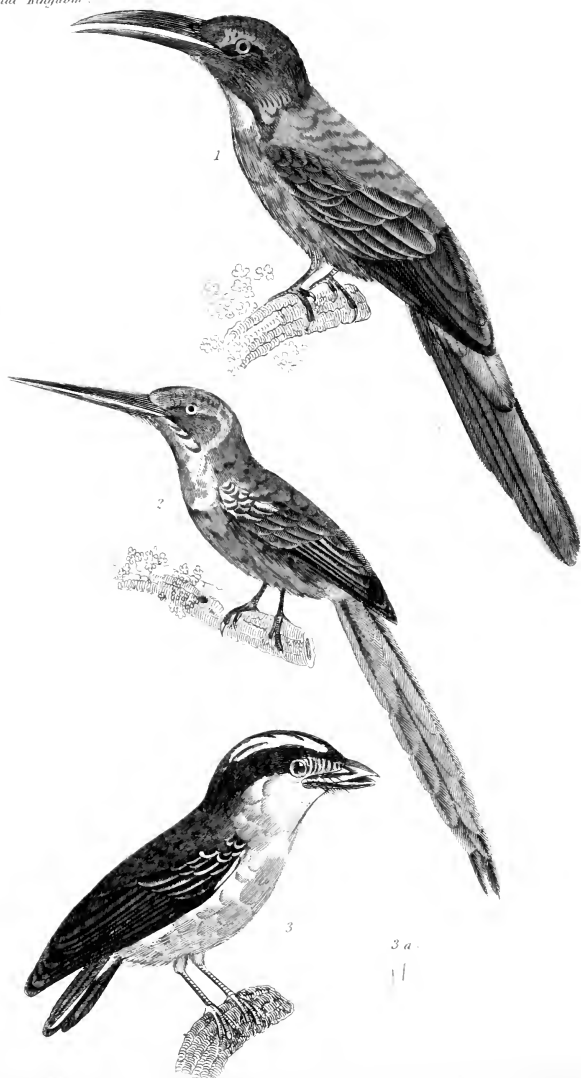




1. *Tamarit melanoleucos*, Gm. *The Tamarit* . 2. *Malcoha rouverdin*, Vaill. *The Malcoha or Vaillant* . 3. *Bucconiger*, Gm. *The Black Throated Barbet*.







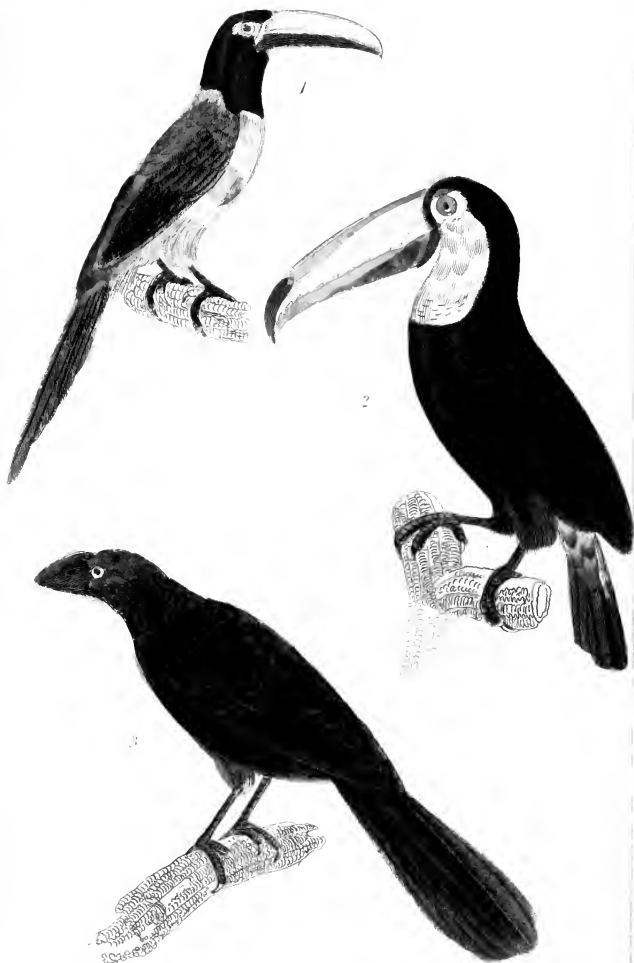
1. *Jacame rops grandis*. *Will* The *Grand Jacamar* . 2. *Galbula ruficaudanoebull*. The *Red tail Jacamar* . 3. *Todus platyrhynchos*. *Em* .





1 *Trogon paysonii* Tem. The Peacock Gourouren. 2 Bill of the *Trogon paysonii*. 2. a. *Trogon paysonii*. 3 *Ramphastos maximus*. Greatest Billed Toucan. 4 Bill of the *Trogon paysonii*. The Greatest An.





1. Ramphastos caracuri Gm. 2. Ramphastos toco. Vailants Birds of Paradise. Pl. 2. 3. Crotophaga ani Gm.

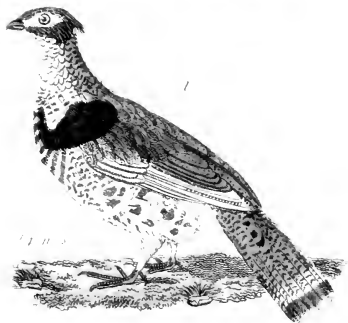
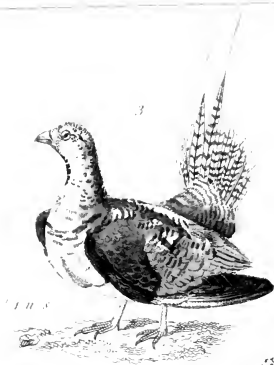




1 *Ara aracanga* Gmel. The Guatana Scarlet Macaw  
2 *Cacatua galeritus* White. The Crested Cockatoo

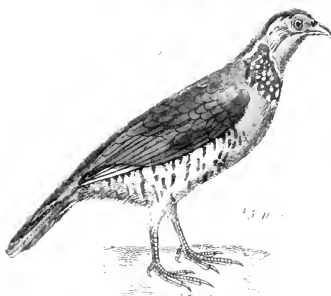






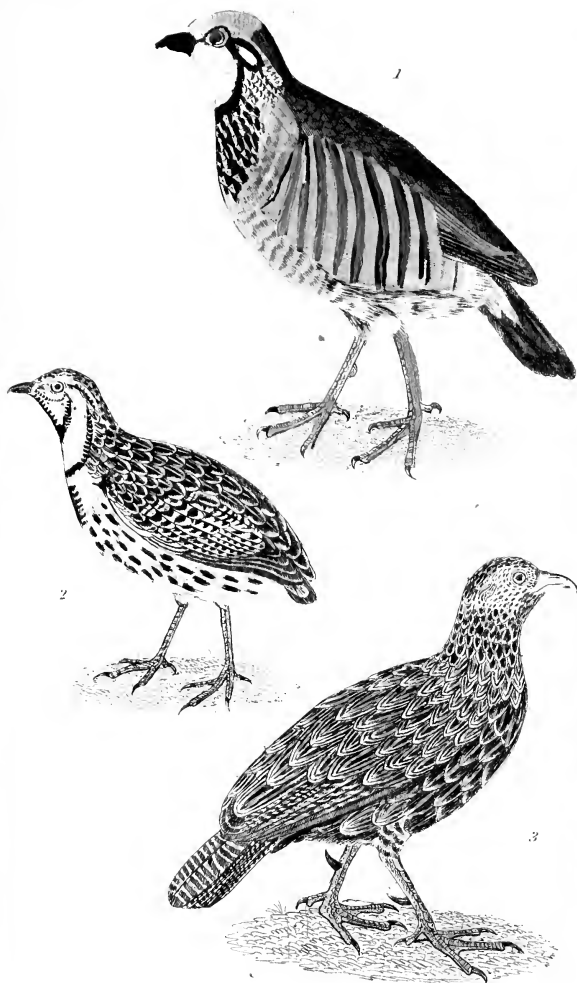
1 Tetrao umbellus (Linn.) The ruffed Grouse 2 Tetrao lagopus (L.) The Ptarmigan White Grouse 3 Pterocles orientalis (L.) The Partridge of Arabia





1 *Francolinus ocellus* Tem. The Allied Francolin. 2 *Perdix petraea* Tem. The bush Partridge.  
3 *Colinus californicus* M. The Californian Colin.





1. *Tetrao rufus* L. The Red Partridge 2. *Perdix textilis* Tranm.

3. *Francolinus clamosus* Tranm.





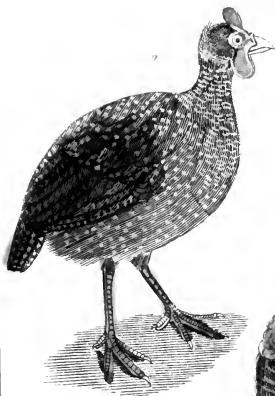






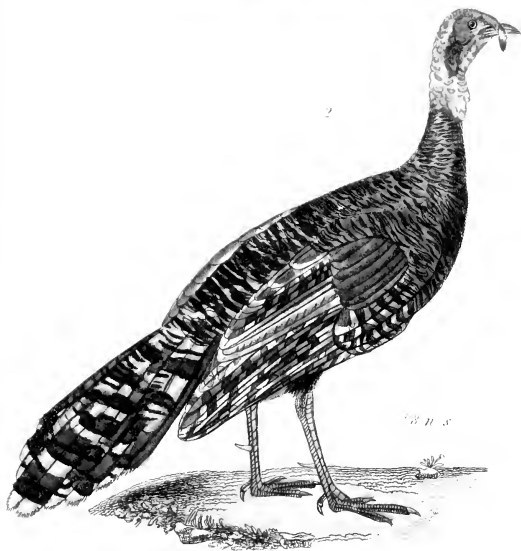
1. *Cuculus persa*, Lin. The Tournai. 2. *Crax alcyon*, Lin. The Moor.  
3. *Musophaea violacea*, Vieill. The Phalarope.





1 *Phasianus gallus* L. The Domestic Cock 2 *Numida meleagris* L. The Common Guinea hen 3 *Meleagris gallopavo* L. The Common Turkey

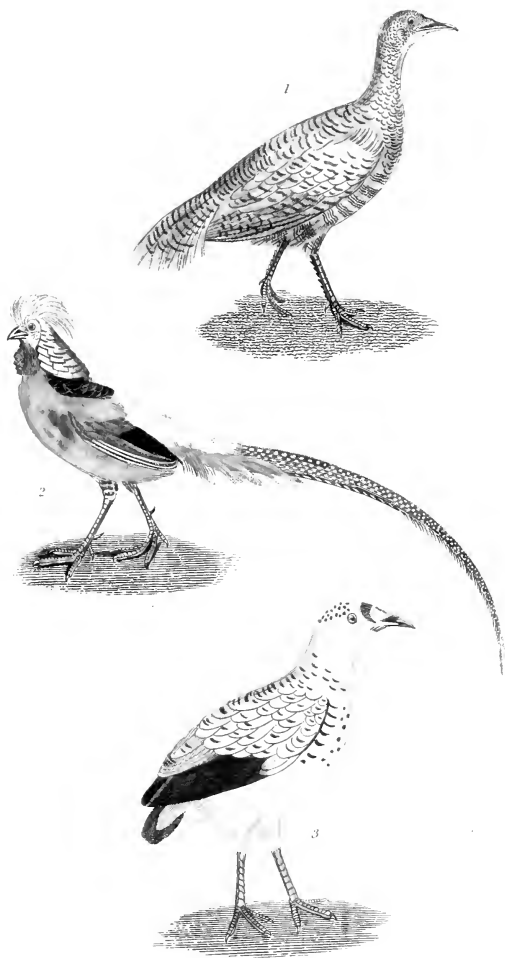




1. *Numida ptilorhynchos*, Licht. The Crested-billed Guinea Hen

2. *Meleagris ocellata* (The Golden-brown-necked Turkey)

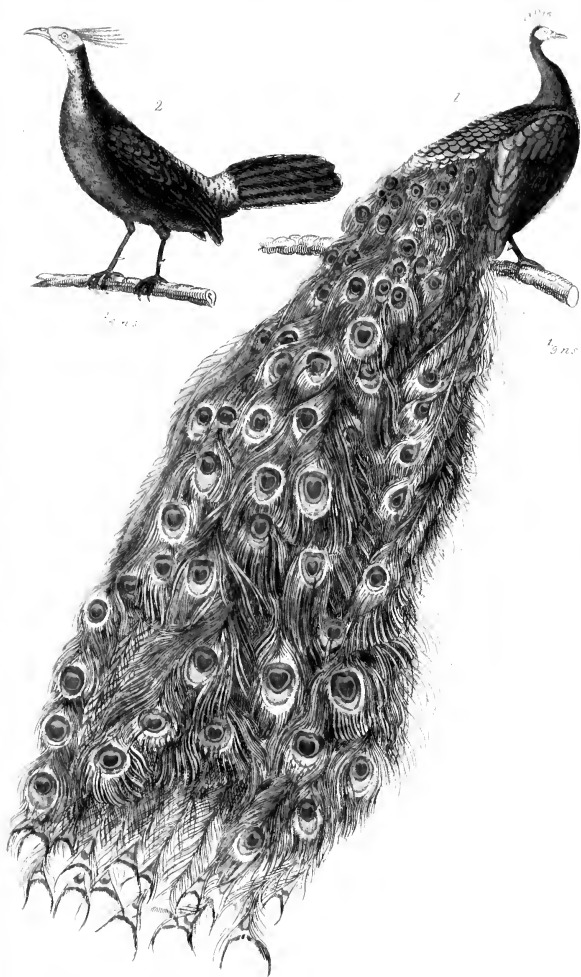




1 *Tinamus brasiliensis* L. The Brazilian Tinamou. 2 *Phasianus pictus* L. The Golden Pheasant. 3 *Hemipodius nigrifrons* Temm.







1 Pavo ...  
2 Lophophorus ...

London: G. S. 1843.

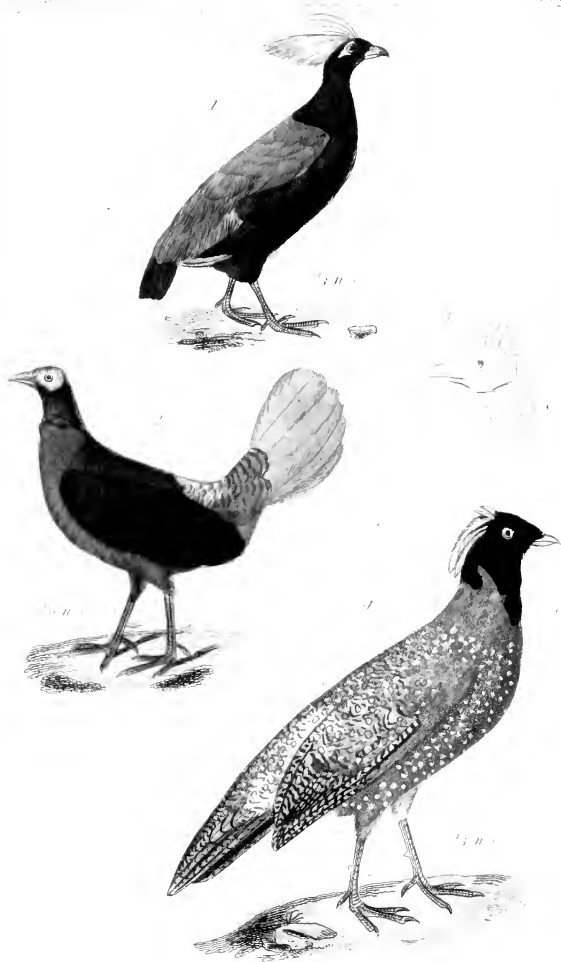




1. *Megapodius Duperreyi* Less.  
2. *Lophophorus rufifolgens* Temm.

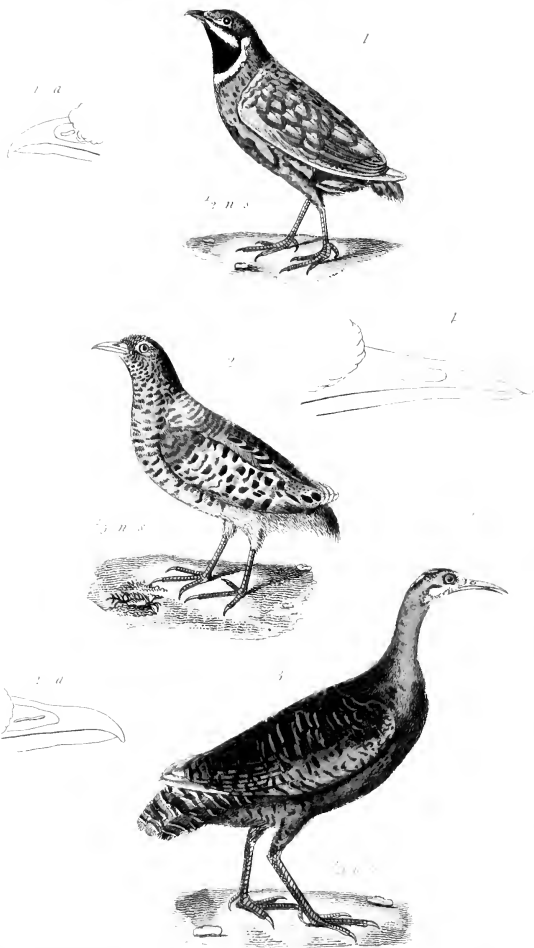
London, G. Blodwen. 2. Old Bailey





1 *Cryptonyx ceylanicus* Tem. The Himalaya Pheasant Tail. 2. *Houppafer Dardi*, *gal' du Ma*  
*Dardi* Pheasant. 3. Head of the *Houppafer ignitus* Sch. The Sunda Pheasant. 4. *Traggopon* *cal*  
*tyrus* Gm. The Horned Pheasant of Nepaul.

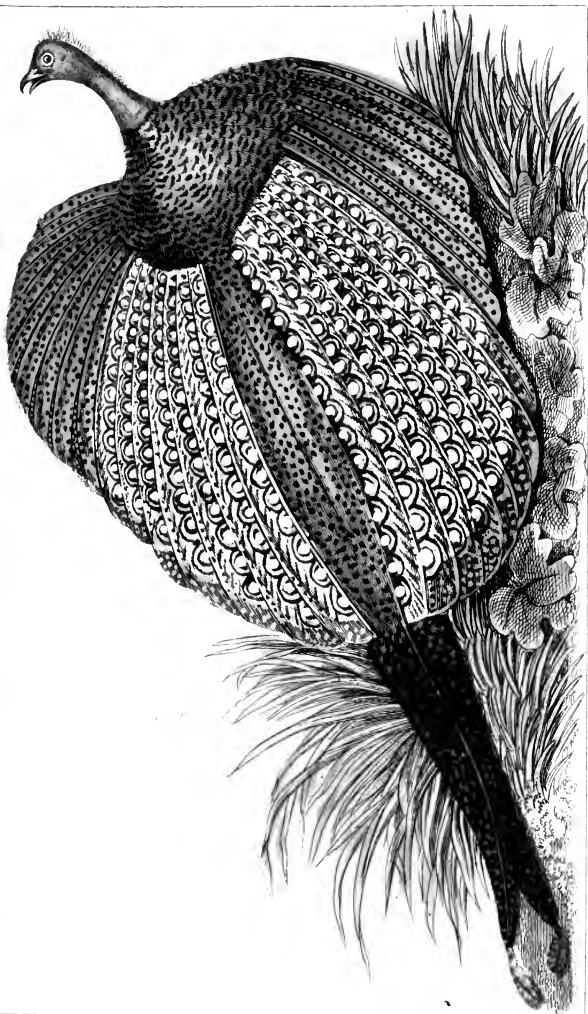




1 *Coturnix chinensis* Lin. The Chinese quail. 2 *Oryzopsis pinnax* Tem. The Fighting quail. 3 *Tinamus rufescens* Tem. The Rufescent Tinamou. 4 Bill of the Tinamou (see Plate 57).

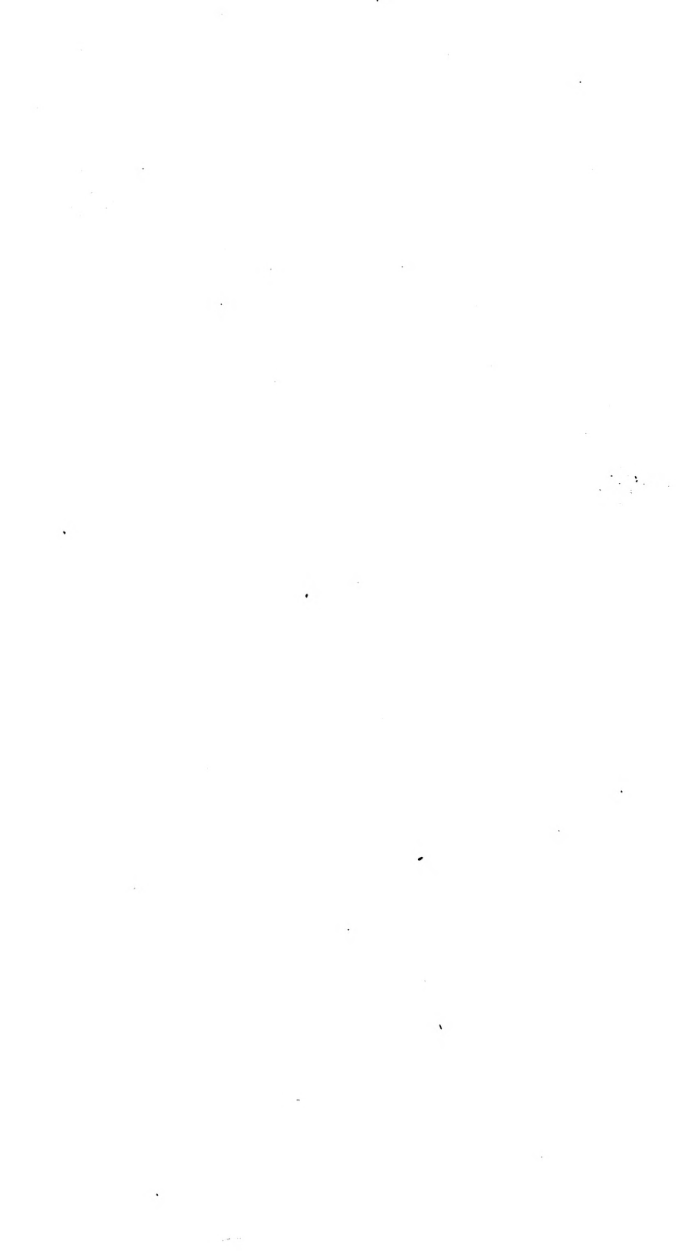


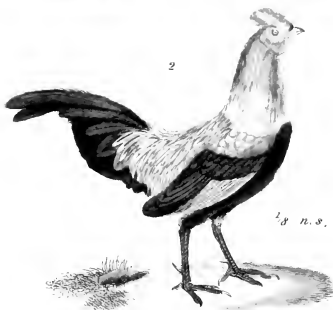
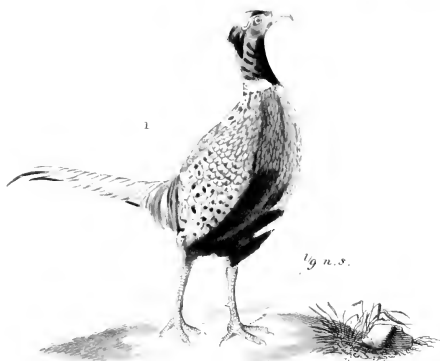




*Phasianus Argus* (The Argus Pheasant.)

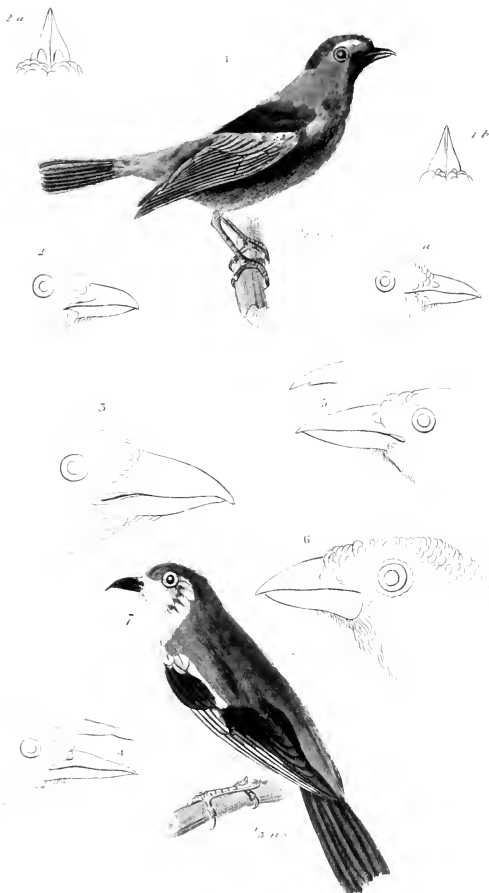
*Painted by B. S. in 1841.*





1. *Phasianus torquatus* (the collared Pheasant)  
 2. *Gallus bankiva* Tem (the wild Cock of Java)  
 2 a. The wild Hen of Java  
 London: Lillenderson 2 Old Bailey.





1 *Tanagra cyancephala* The Blue headed Tanager

2 Bill of the *Tanagra aeneiventris* Greenish Tanager

3 Bill of the *Tanager* *Alagoa* *caerulescens* Tanager

7 *Turdus thibetanus*

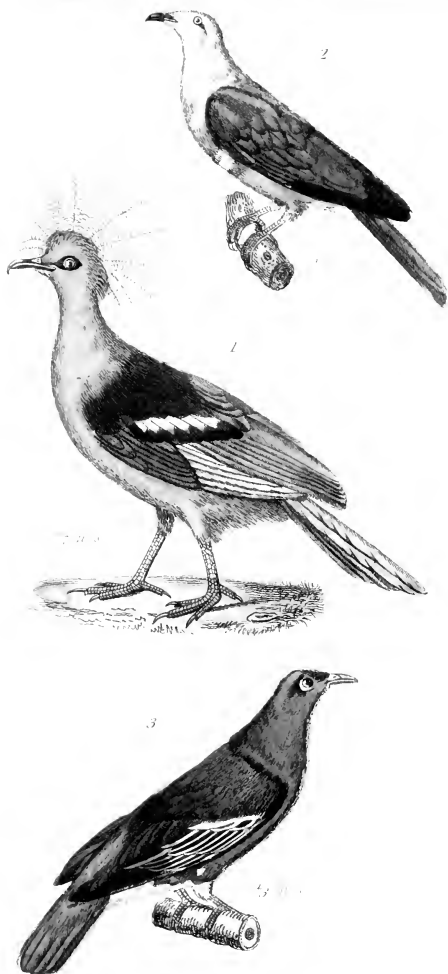
4 Bill of the *Tanager* *pyrrhuloxia* Cereus Tanager

5 Bill of the *Tanager* *nigerrima* Chestnut Tanager

6 Bill of the *Tanager* *brasilia* *Rhamphocelus* Tanager

The White necked Thrush

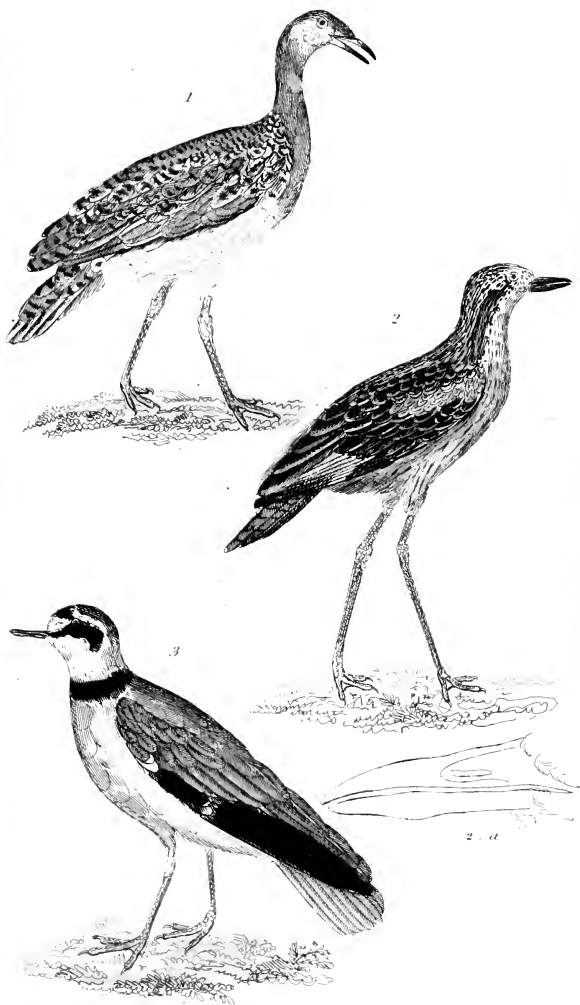




1 *Goura coronata* The crowned Pigeon. 2 *Columba palumbus* The Rock Dove. 3 *Myiophobus coronatus* The Spotted Dove.







1. *Otis tetrax*. Lin. The little Bustard. 2. *Edicnemus laniipes*. Geoff. S. Hill

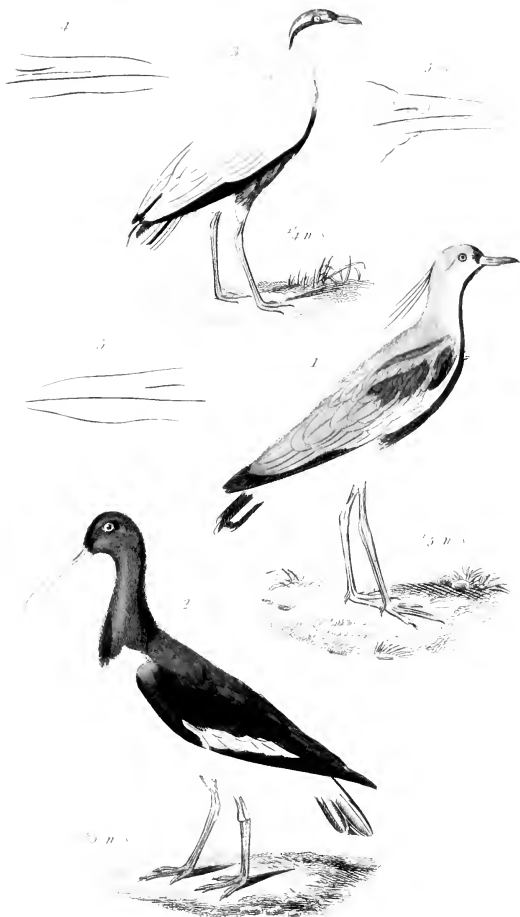
3. *Charadrius hiaticula*. Lin. The Ring Plover





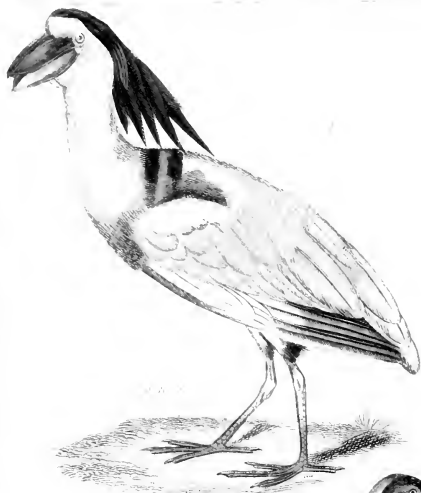
1 *Otus scotellus* (a) (The Great Bustard) 2 Bill of the *Otus apra* (a) (The Little Bustard) 3 Bill of the *Otus apra* (a) (The Little Bustard) 4 Bill of the *Edememus maculosus* (a) (The Speckled Thick Knee) 5 Bill of the *Ed. vulgaris* (a) (The Common Thick Knee) 6 *Charadrius bilobus* L. (The bilobate Plover)





1 *Vanellus caymanensis* Tem. The Cayenne Lap-wing. 2 *Hematopus palliatus* Tem. The Cleaked Oyster-batcher. 3 *Cursorius coromandelicus* Lath. The Coromandel Swift-foot. 4 Bill of the Vanneau commun. 5 *Vanellus Lin.* The European Lap-wing. 5 Bill of the *Tringa squataria* Lath. The Lap-wing Plover.

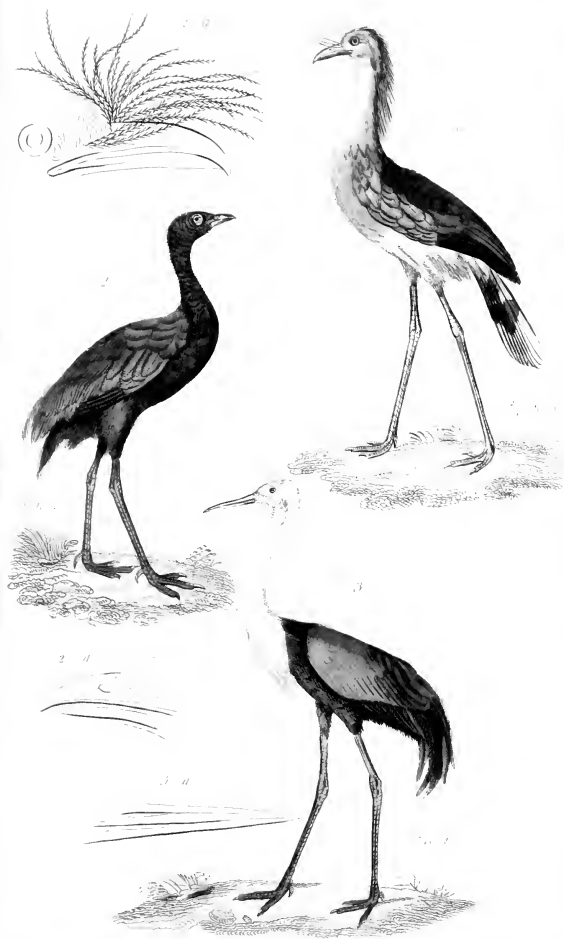




1 *Ardea herodias* (Great Egret) 2 *Ardea herodias* (Great Blue Heron)

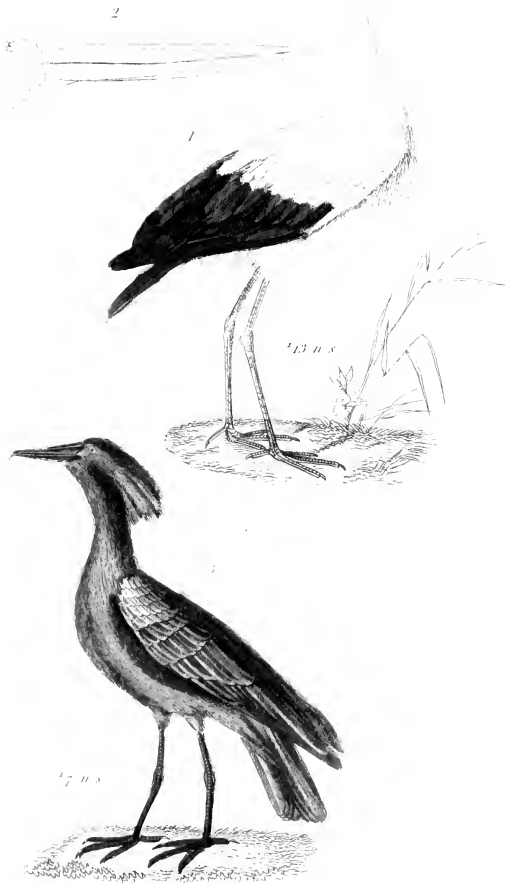






1 *Microdictylus cristatus* Geoff. The Short Finger 2 *Psophia crepitans* The Trumpeter  
3 *Grus carunculata* The Crowned crane

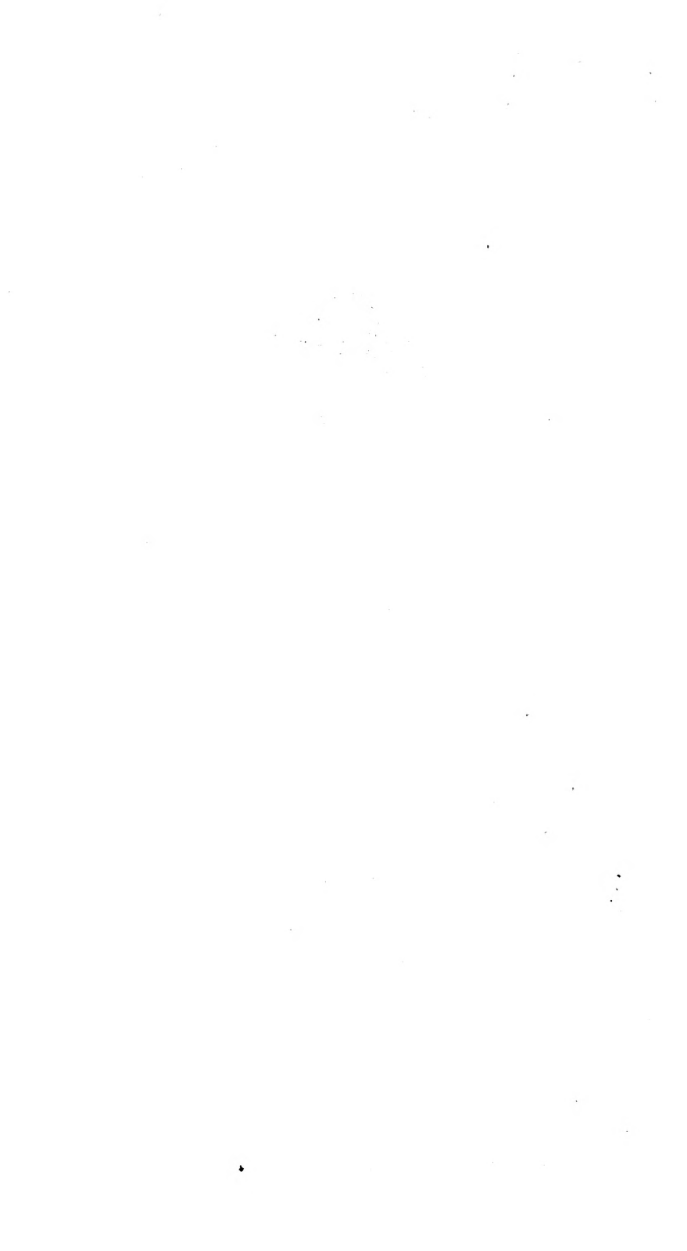


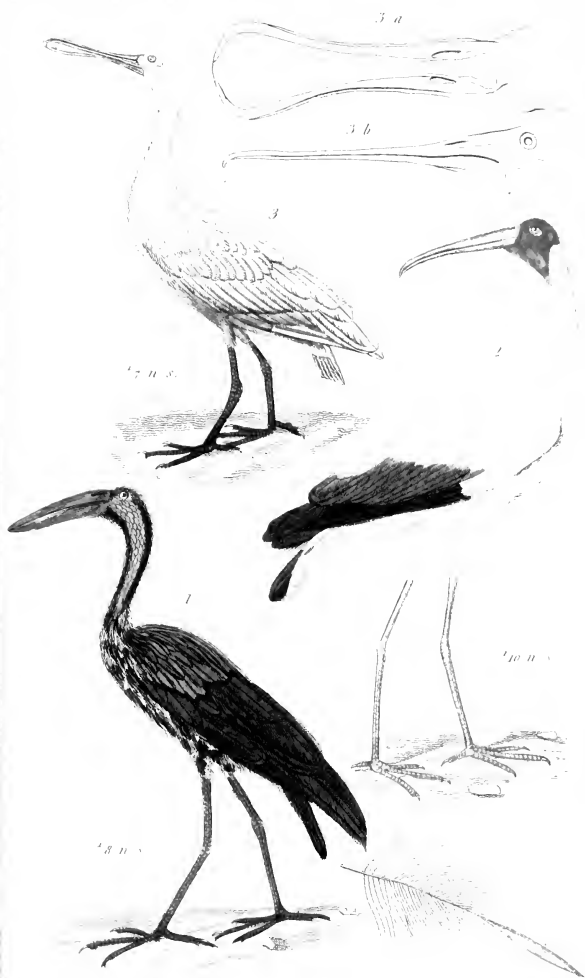
1 *Graculus maguari* Vieill. *The Maguari or American Stork*. 2 *Bill of the Tabiru Maguari*, *erythrorhynchus* Lath. *The Tabiru*.3. *Scopus umbretta*, Vieill., *The Umbel coloured Noddy*





1. *Ardea ciconia*, Lin. The White Stork    2. *Mycteria americana*, Lin. The American Schiz    3. *Ardea major*, Lin. The common Heron

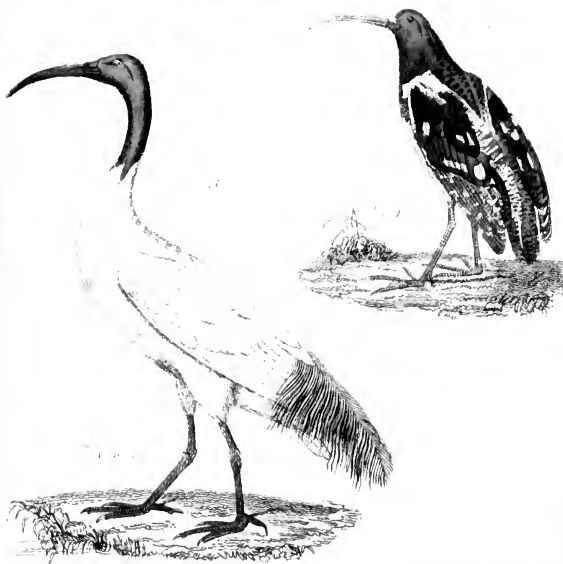




1 *Anastomus lamelliger* Tem. The Long-billed Open Bill. 2 *Tantalus ibei* Lin. The African Tantalus.  
3 *Platalea americana* Vieill. The South American Spoon Bill.

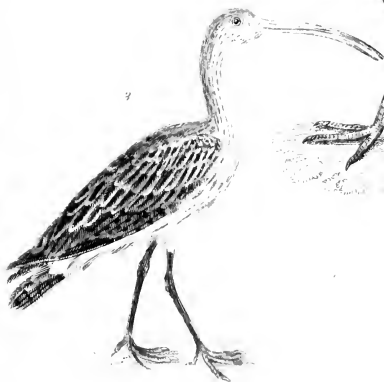
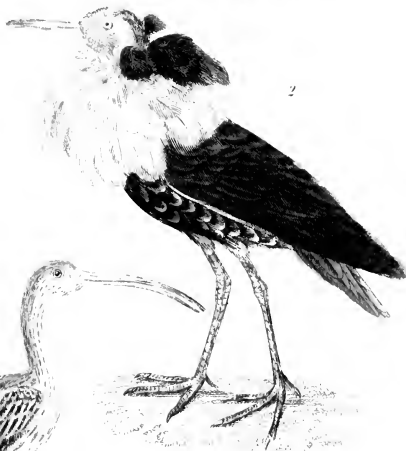
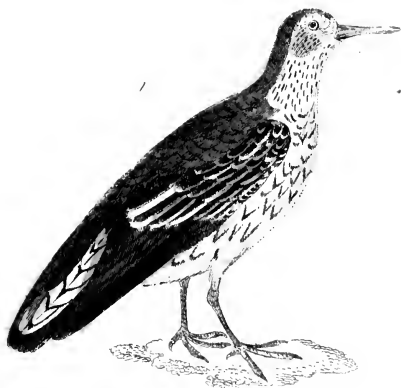






1. *Scolopax gigantea* Linn. The Giant's Woodcock, &c. 2. *Rhynchaea balarea* Val. The Brazilian Snipe.  
3. *Ibis religiosa*. The Sacred Ibis.

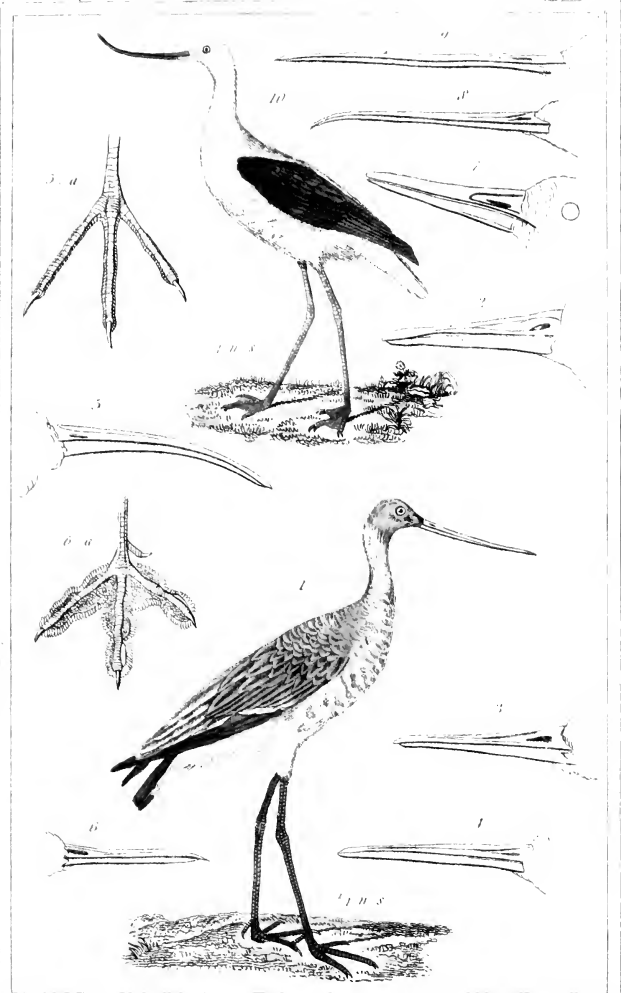




1. *Tringa islandica* Gmelin The Sand piper 2. *Tringa pugnax* Lin The Ruff

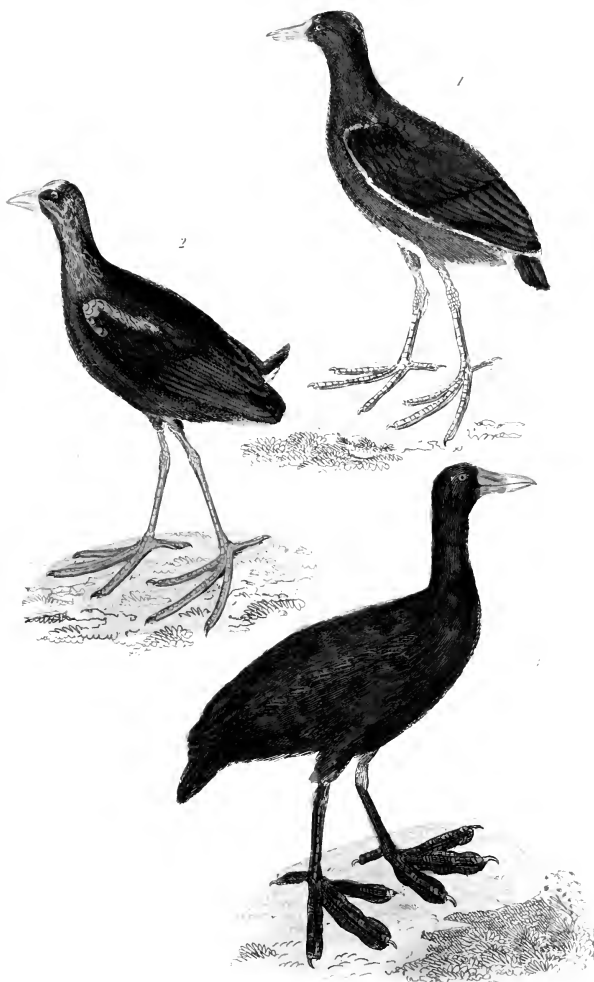
3. *Scolopax arcuata* Lin The European Curlew





1 *Limosa melanura* Lister. The Black-tailed God-wit. 2 Bill of the *Calidris rufa* Wils. The Red Sanderling. 3 Bill of the *Actinotya calidris* Gm. The Common Sanderling. 4 Bill of the *Peleodina alpina* Gm. The Alpine Puffin. 5 Bill of the *Falco melanurus* L. The Tigris Owl. 6 Bill of the *Phalaropus lobatus* L. The Lobed Phalarope. 7 Bill of the *Streptopodus interpres* L. The Snipe. 8 Bill of the *Totanus fuscus* L. The Fuscous Sand-piper. 9 Bill of the *Numenius macrotis* Wils. The American Long-bills. 10 *Numenius orientalis*. The Oriental Avocet.



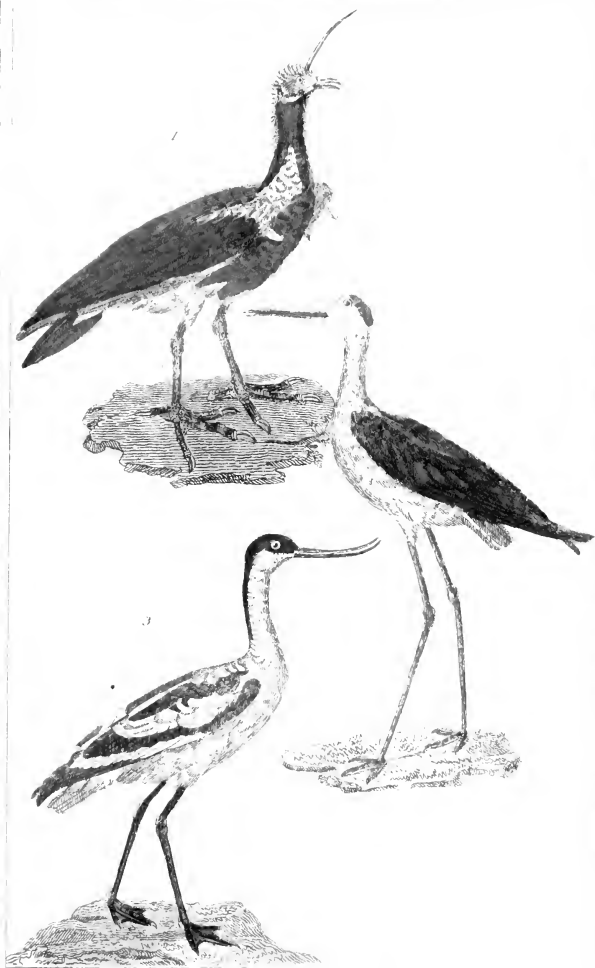


1 *Fulica chloropus* Lin. The Water Hen 2 *Fulica phaeopygia* Lin.  
3 *Fulica atra* Gmelin. The Coot

London G. Henderson 2. Old Bailey



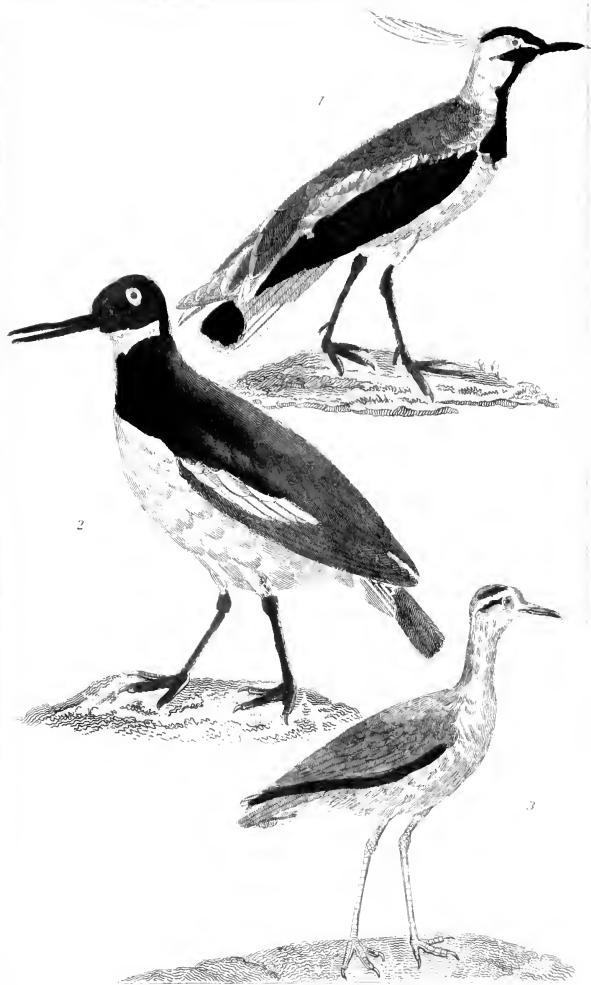




1. *Actitis macularia* L. 2. *Actitis macularia* L.

3. *Actitis macularia* L.

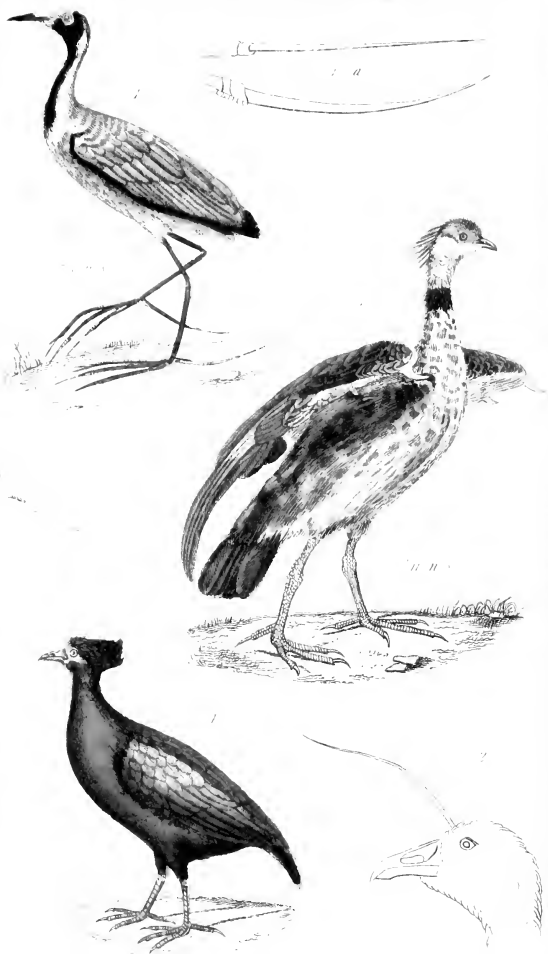




1 *Tringa vanellus* Lin. The European lapwing. 2 *Hematopus ostralegus* Lin. The Oyster catcher.

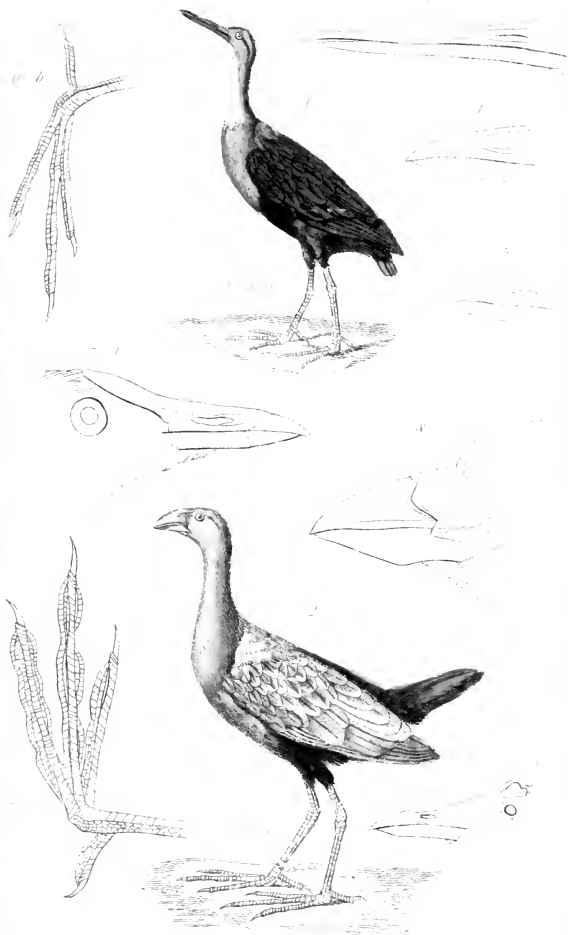
3 *Cursorius isabellinus* Meyer.





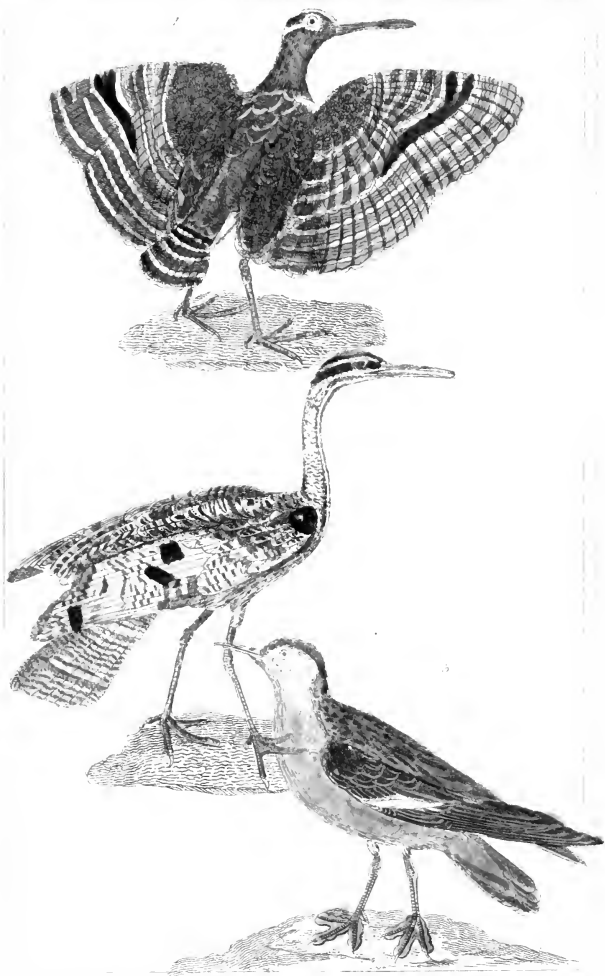
1. *Parra monax* (The Great Horned Owl) 2. Head of the *Palamedia cornuta* (The Horned Owl) 3. *Chamaeophaps* (The Chamaeophaps of Paraguay) 4. *Megapodius* (The Megapodius of Australia)











1. *Scolopax agrippina* 2. *Scolopax indus* 3. *Platynopus*

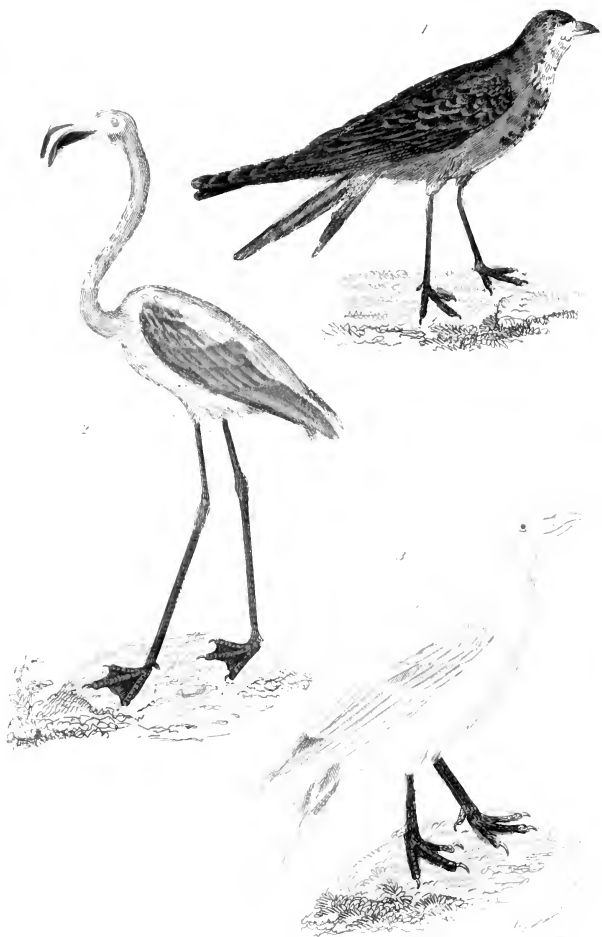
4. *Platynopus*



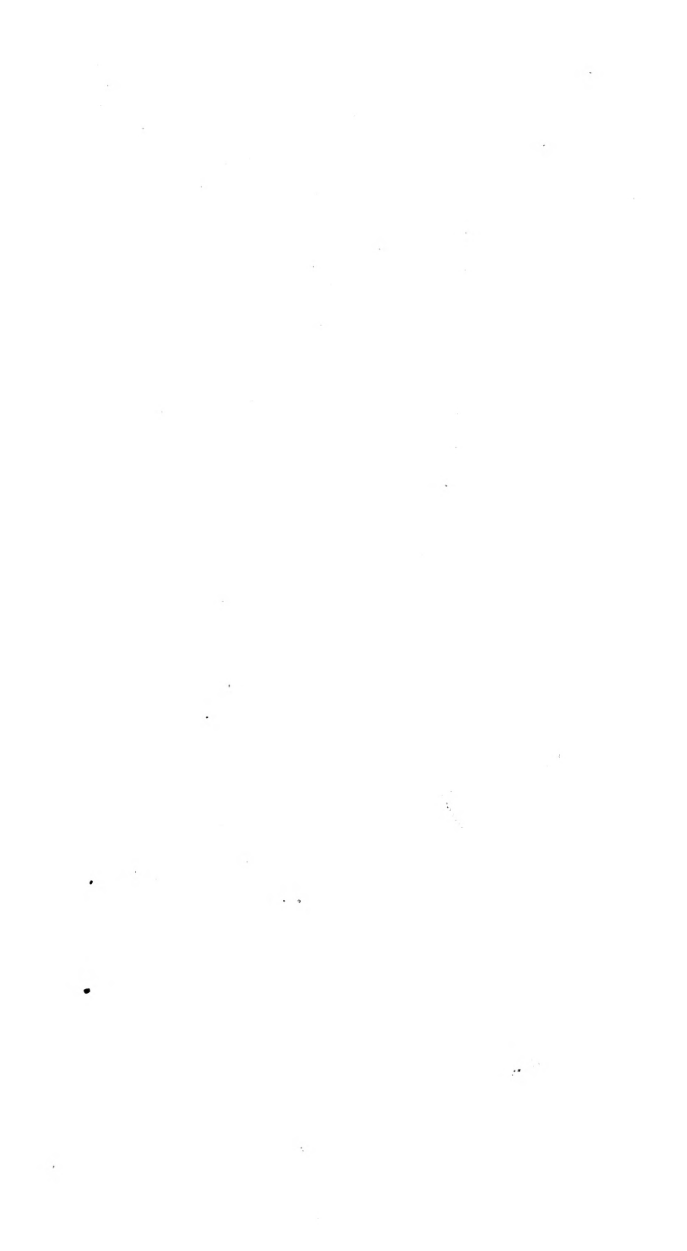


1 *Glareola lactea* Tem. The White-tailed Tern. 2 *Phaenopterus sanguinolentus* (Linn.) The Roseate Spoonbill. 3 bill of the Phalaropus lobatus. 4 bill of the Phalaropus lobatus. 5 bill of the Phalaropus lobatus. 6 bill of the Phalaropus lobatus.





1 *Coturnix coturnix* Linn. The European Pouter or Sea Partridge. 2 *Phoenicopterus ruber* Linn. The Red Flamingo. 3 *Vaghalis chalcus* Lath. The Shearwater.





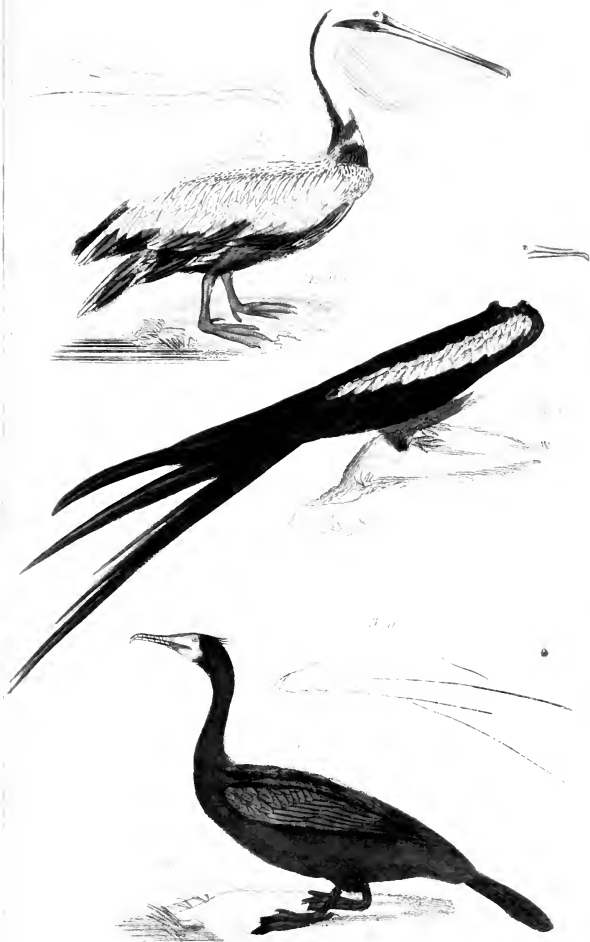
1 Podiceps cornutus Vail. The Dusky Grebe. 2 Helonius carolinensis Linn. The American Helonius. 3 Head & Feet of the Culymbus glaucus L. The Great Northern Diver. 4 Bill of the Fregata acaia Vail. The Spotted booby or Greenland Dove. 5 Urophasian minor Gmel. The Little Gullinnet.











1. Pelecanus. 2. Frigatebird. 3. Cormorant.





1 *Fregata acares*, The Great Frigatebird. 2 *Diomedea immutabilis*, Laysan Albatross.

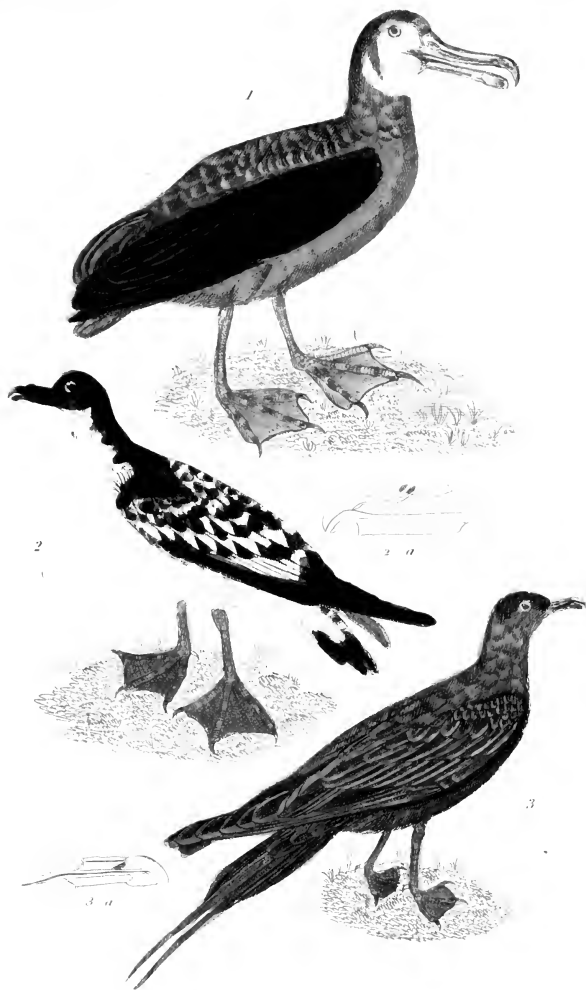




1 *Procellaria pelagica* Lin. Mother Carey's Chicken. 2 Bill of the *Procellaria* (small). The Lark. 3 Bill of the *Puffinus aquinosus* Edw. The Equatorial Puffin. 4 Bill of the *Fulmar* (small). The Lark. 5. *Diomedea melanophaea*. The Albatross.







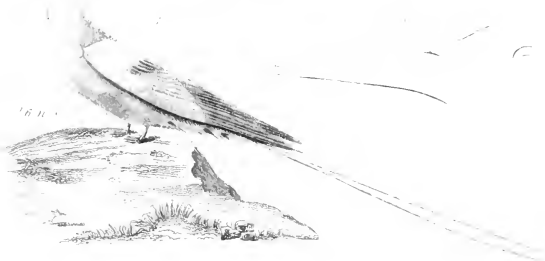
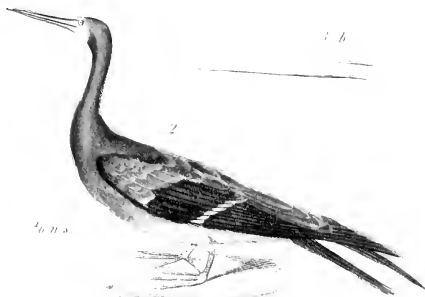
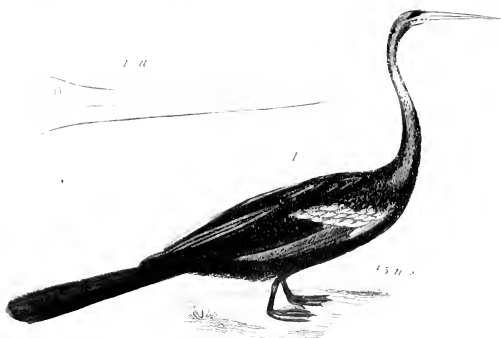
1. *Diomedea exulans* Lm The common Albatross 2. *Procellaria capensis* The Cape Petrel  
or Cape Penguin 3. *Larus crepitans* Sm The Herring Gull





1. *Fuligula* (Goose) 2. *Branta* (Goose) 3. *Anas* (Goose) 4. *Rhyacionia* (Goose) 5. *Rhyacionia* (Goose) 6. *Rhyacionia* (Goose)





1 *Plotos lineatus* Bland. Rock. The Black-bellied Darter. 2 *Sula parva* Gmel. The Basque or Common Duck. 3 *Phaethon tropicus* Vieill. The common Tropic Bird.

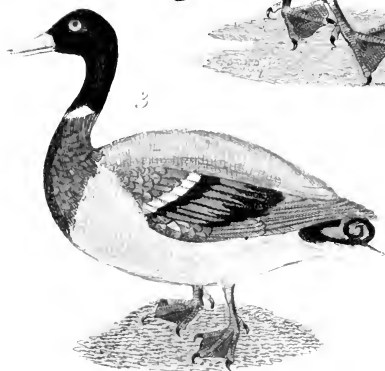




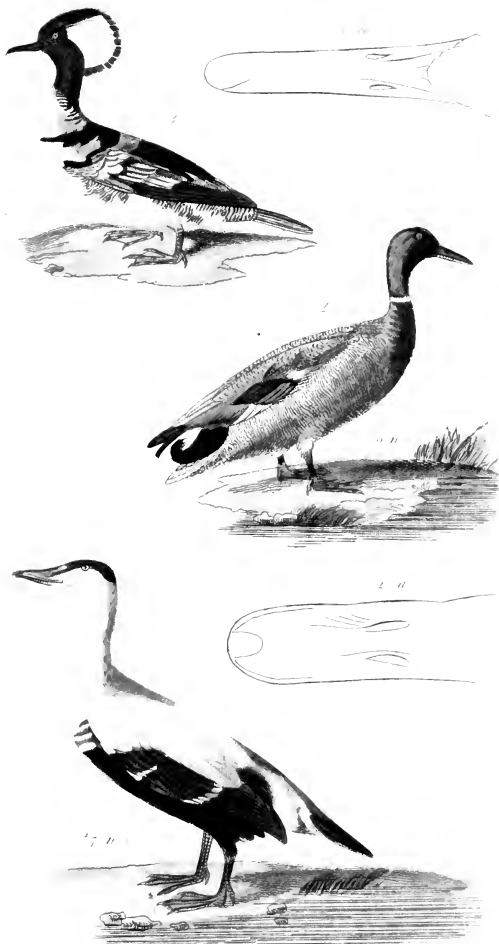
1 *Cygnus olor* Gmel. The Red billed or Common Swan. 2 *Anser Bernache* L., the Common Goose. The Bernacle Goose. 3 *Anas platyrhynchos* L. The Golden Eye.











1. *Larus marinus mollescens* L. The Eider or St. Catharine's Duck. 2. *Anas platyrhynchos* L. The Mallard. 3. *Fulica maritima* L. The Coot.





1 *Stentrio camelus* L. The ostrich

2 *Casuarius gabentus* Vieill. The oriental ostrich





1 Skeleton of the Ibis from a Mummy found at Thebes in Egypt. 2 Figure of the Ibis copied from one of the Temples in Upper Egypt. 3 Bill drawn from the Mummy of an Ibis by Mr. Clavier.







1. Numenius Ibis. *The true Ibis of the Egyptians*











PROPERTY OF  
Z. P. METCALF

